TOSHIBA

Tecra® M3 Series User's Guide

If you need assistance:

- Toshiba's Support Website
  pcsupport.toshiba.com
- Toshiba Global Support Centre
  Calling within the United States (800) 457-7777
  Calling from outside the United States (949) 859-4273

For more information, see "If Something Goes Wrong" on page 204 in this guide.

PMAD00028010
01/05

⚠ WARNING Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. ***Wash hands after handling***.

Model: Tecra M3 Series

ReWritable CD/DVD Drives

The computer system you purchased may include a ReWritable CD and/or DVD drive(s), among the most advanced data storage technologies available. As with any new technology, you must read and follow all set-up and usage instructions in the applicable user guides and/or manuals enclosed. If you fail to do so, this product may not function properly and you may lose data or suffer other damage. **TOSHIBA AMERICA INFORMATION SYSTEMS ("TOSHIBA"), ITS AFFILIATES AND SUPPLIERS DO NOT WARRANT THAT OPERATION OF THE PRODUCT WILL BE UNINTERRUPTED OR ERROR FREE. YOU AGREE THAT TOSHIBA, ITS AFFILIATES AND SUPPLIERS SHALL HAVE NO RESPONSIBILITY FOR DAMAGE TO OR LOSS OF ANY BUSINESS, PROFITS, PROGRAMS, DATA OR REMOVABLE STORAGE MEDIA ARISING OUT OF OR RESULTING FROM THE USE OF THE PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.**

Protection of Stored Data

For your important data, please make periodic back-up copies of all the data stored on the hard disk or other storage devices as a precaution against possible failures, alteration, or loss of the data. **IF YOUR DATA IS ALTERED OR LOST DUE TO ANY TROUBLE, FAILURE OR MALFUNCTION OF THE HARD DISK DRIVE OR OTHER STORAGE DEVICES AND THE DATA CANNOT BE RECOVERED, TOSHIBA SHALL NOT BE LIABLE FOR ANY DAMAGE OR LOSS OF DATA, OR ANY OTHER DAMAGE RESULTING THEREFROM. WHEN COPYING OR TRANSFERRING YOUR DATA, PLEASE BE SURE TO CONFIRM WHETHER THE DATA HAS BEEN SUCCESSFULLY COPIED OR TRANSFERRED. TOSHIBA DISCLAIMS ANY LIABILITY FOR THE FAILURE TO COPY OR TRANSFER THE DATA CORRECTLY.**

Critical Applications

The computer you have purchased is not designed for any "critical applications." "Critical applications" means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where product failure could lead to injury to persons or loss of life or catastrophic property damage.

ACCORDINGLY, TOSHIBA, ITS AFFILIATES AND SUPPLIERS DISCLAIM ANY AND ALL LIABILITY ARISING OUT OF THE USE OF THE COMPUTER PRODUCTS IN ANY CRITICAL APPLICATIONS. IF YOU USE THE COMPUTER PRODUCTS IN A CRITICAL APPLICATION, YOU, AND NOT TOSHIBA, ASSUME FULL RESPONSIBILITY FOR SUCH USE.

FCC Notice "Declaration of Conformity Information"

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE Only Peripherals complying with the FCC Class B limits may be attached to this equipment. Operation with noncompliant peripherals or peripherals not recommended by Toshiba is likely to result in interference to radio and TV reception. Shielded cables must be used between the external devices and the computer's parallel port, monitor port, USB port, PS/2 port®,i.LINK® port and microphone jack. Changes or modifications made to this equipment not expressly approved by Toshiba or parties authorized by Toshiba could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Contact either:

- Toshiba's Support Website at pcsupport.toshiba.com
- Or call the Toshiba Global Support Centre:

  Within the United States at (800) 457-7777

  Outside the United States at (949) 859-4273

Industry Canada requirement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conformé à la norme NMB-003 du Canada.

FCC requirements

The following information is pursuant to FCC CFR 47, Part 68 and refers to internal modems.

This equipment complies with Part 68 of the FCC rules. On the bottom of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, the information must be provided to the telephone company.

The modem connects to the telephone line by means of a standard jack called the USOC RJ11C.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC part 68 rules and requirements adopted by the ACTA. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by the ## are the REN without a

decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

Telephone Company Procedures

The goal of the telephone company is to provide you with the best service it can. In order to do this, it may occasionally be necessary for them to make changes in their equipment, operations or procedures. If these changes might affect your service or the operation of your equipment, the telephone company will give you notice, in writing, to allow you to make any changes necessary to maintain uninterrupted service.

If Problems Arise

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advanced notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

If trouble is experienced with this equipment, for repair or limited warranty information, please contact Toshiba Corporation, Toshiba America Information Systems, Inc. or an authorized representative of Toshiba, or the Toshiba Support Centre within the United States at (800) 457-7777 or Outside the United States at (949) 859-4273. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Disconnection

If you should ever decide to permanently disconnect your modem from its present line, please call the telephone company and let them know of this change.

Fax Branding

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including Fax machines, to send any message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number

provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.)

In order to program this information into your fax transmission, refer to the fax software instructions installed on this computer.

Alarm Equipment

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Instructions for IC CS-03 Certified Equipment

1. NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

   Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

   Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

   Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

   Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

2. The user manual of analog equipment must contain the equipment's Ringer Equivalence Number (REN) and an explanation notice similar to the following:

   The Ringer Equivalence Number (REN) of this device can be found on the label affixed to your computer.

NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

3 The standard connecting arrangement (telephone jack type) for this equipment is jack type(s): USOC RJ11C.

Wireless Interoperability

The TOSHIBA Wireless LAN Mini PCI Card products are designed to be interoperable with any wireless LAN product that is based on Direct Sequence Spread Spectrum (DSSS) radio technology, and is compliant to:

- The IEEE 802.11 Standard on Wireless LANs (Revision A/B/G), as defined and approved by the Institute of Electrical and Electronics Engineers.
- The Wireless Fidelity (Wi-Fi) certification as defined by the Wi-Fi Alliance. The "Wi-Fi CERTIFIED" logo is a certification mark of the Wi-Fi Alliance.

CAUTION Bluetooth™ and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth™ and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection.

If you should experience any such problem, immediately turn off your Bluetooth™ or Wireless LAN device.

Please contact Toshiba PC product support on Web site http://www.toshiba-europe.com/computers/tnt/bluetooth.htm in Europe or http://www.pcsupport.global.toshiba.com in the United States for more information.

CAUTION This device is restricted to indoor use due to its operation in the 5.15 GHz to 5.25 GHz frequency range.

Wireless LAN and your Health

Wireless LAN products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by Wireless LAN devices however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of Wireless LAN may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- Using the Wireless LAN equipment on board of airplanes, or
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment (e.g. airports), you are encouraged to ask for authorization to use the Wireless LAN device prior to turning on the equipment.

Regulatory Information

The TOSHIBA Wireless LAN Mini PCI Card must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. This device complies with the following radio frequency and safety standards.

Canada – Industry Canada (IC)

This device complies with RSS 210 of Industry Canada.

CAUTION The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's Web site www.hc-sc.gc.ca/rpb. The RF device shall not be co-located with any other transmitter that has not been tested with this device.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit étre prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

Pour empecher que cet appareil cause du brouillage au service faisant l'objet d'une licence, il doit etre utilize a l'interieur et devrait etre place loin des fenetres afin de Fournier un ecram de blindage maximal. Si le matriel (ou son antenne d'emission) est installe a l'exterieur, il doit faire l'objet d'une licence.

CAUTION This device is restricted to indoor use due to its operation in the 5.15 GHz to 5.25 GHz frequency range. Industry Canada requires this product to be used indoors for frequency range 5.15 GHz to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

High power radars are allocated as primary users of the 5.25 GHz to 5.35 GHz and 5.65 GHz to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device.

Europe – EU Declaration of Conformity CE !

- This device complies with the essential requirements of the R&TTE Directive 1999/5/EC with essential test suites as per standards:

EN 60950 Safety of Information Technology equipment.

ETS 300 328 Technical requirements for radio equipment.

ETS 300 826 General EMC requirements for radio equipment.

English:	Hereby, TOSHIBA Corp. Digital Media Network Company, declares that this Radio LAN device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Finnish:	Valmistaja TOSHIBA Corp. Digital Media Network Company vakuuttaa täten että Radio LAN device tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Dutch:	Hierbij verklaart TOSHIBA Corp. Digital Media Network Company dat het toestel Radio LAN device in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
	Bij deze TOSHIBA Corp. Digital Media Network Company dat deze Radio LAN device voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.
French:	Par la présente TOSHIBA Corp. Digital Media Network Company déclare que l'appareil Radio LAN device est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
	Par la présente, TOSHIBA Corp. Digital Media Network Company déclare que ce Radio LAN device est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.
Swedish:	Härmed intygar TOSHIBA Corp. Digital Media Network Company att denna Radio LAN device står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Danish:	Undertegnede TOSHIBA Corp. Digital Media Network Company erklærer herved, at følgende udstyr Radio LAN device overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF
German:	Hiermit erklärt TOSHIBA Corp. Digital Media Network Company, dass sich dieser/diese/dieses Radio LAN device in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet". (BMWi)
	Hiermit erklärt TOSHIBA Corp. Digital Media Network Company die Übereinstimmung des Gerätes Radio LAN device mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG. (Wien)
Greek:	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ TOSHIBA Corp. Digital Media Network Company ΔΗΛΩΝΕΙ ΟΤΙ Radio LAN device ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ

Italian:	Con la presente TOSHIBA Corp. Digital Media Network Company dichiara che questo Radio LAN device è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Spanish:	Por medio de la presente TOSHIBA Corp. Digital Media Network Company declara que el Radio LAN device cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Portuguese:	TOSHIBA Corp. Digital Media Network Company declara que este Radio LAN device está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

USA – Federal Communications Commission (FCC)

This device complies with Part 15 of FCC Rules. Operation of the devices in a Wireless LAN System is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference that may cause undesired operation.

TOSHIBA is not responsible for any radio or television interference caused by unauthorized modification of the devices included with this TOSHIBA Wireless LAN Mini PCI Card, or the substitution or attachment of connecting cables and equipment other than specified by TOSHIBA.

The correction of interference caused by such unauthorized modification, substitution or attachment will be the responsibility of the user.

Caution: Exposure to Radio Frequency Radiation

The radiated output power of the TOSHIBA Wireless LAN Mini PCI Card is far below the FCC radio frequency exposure limits. Nevertheless, the TOSHIBA Wireless LAN Mini PCI Card shall be used in such a manner that the potential for human contact during normal operation is minimized. In normal operating configuration, the LCD in the upright position, the distance between the antenna and the user should not be less than 20 cm. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Antenna(s) used in 5.15 GHz to 5.25 GHz frequency band must be integral antenna which provide no access to the end user.

Refer to the Regulatory Statements as identified in the documentation that comes with those products for additional information.

Caution: Radio Frequency Interference Requirements

This device is restricted to indoor use due to its operation in the 5.15 GHz to 5.25 GHz frequency range. FCC requires this product to be used indoors for frequency range 5.15 GHz to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

High power radars are allocated as primary users of the 5.25 GHz to 5.35 GHz and 5.65 GHz to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device.

NOTE The above Caution information applies to products that operate with an 802.11a device.

Taiwan

Article 14	Unless approved, for any model accredited low power radio frequency electric machinery, any company, trader or user shall not change the frequency, increase the power or change the features and functions of the original design.
Article 17	Any use of low power radio frequency electric machinery shall not affect the aviation safety and interfere with legal communications. In event that any interference is found, the use of such electric machinery shall be stopped immediately, and reusing of such products can be resumed until no interference occurs after improvement.

The legal communications mentioned in the above item refer to radio communications operated in accordance with telecommunication laws and regulations.

Low power radio frequency electric machinery shall resist against interference from legal communications or from industrial, scientific and medical radio emission electric machinery.

Using this Equipment in Japan

In Japan, the frequency bandwidth of 2,400 MHz to 2,483.5 MHz for second generation low-power data communication systems such as this equipment overlaps that of mobile object identification systems (premises radio station and specified low-power radio station).

1. Sticker

Please put the following sticker on devices incorporating this product.

The frequency bandwidth of this equipment may operate within the same range as industrial devices, scientific devices, medical devices, microwave ovens, licensed radio stations and non-licensed specified low-power radio stations for mobile object identification systems (RFID) used in factory production lines (Other Radio Stations).

1. Before using this equipment, ensure that it does not interfere with any of the equipment listed above.
2. If this equipment causes RF interference to other radio stations, promptly change the frequency being used, change the location of use, or turn off the source of emissions.
3. Contact TOSHIBA Direct PC if you have problems with interference caused by this product to Other Radio Stations.

2. Indication

The indication shown below appears on this equipment.

1 2.4: This equipment uses a frequency of 2.4 GHz.

2 DS: This equipment uses DS-SS modulation.

OF: This equipment uses OFDM modulation.

3 The interference range of this equipment is less than 40m.

4 ■■■ This equipment uses a frequency bandwidth from 2,400 MHz to 2,483.5 MHz.

It is possible to avoid the band of mobile object identification systems.

3. TOSHIBA Direct PC

Monday – Friday: 10:00 – 17:00

Toll Free Tel: 0120-13-1100

Direct Dial: 03-3457-5916

Fax: 03-5444-9450

Device Authorization

This device obtains the Technical Regulation Conformity Certification and the Technical Conditions Compliance Approval, and it belongs to the device class of radio equipment of low-power data communication system radio station stipulated in the Radio Law and the Telecommunications Business Law of Japan.

The Name of the radio equipment: refer to the equipment label provided on the computer

JAPAN APPROVALS INSTITUTE FOR TELECOMMUNICATIONS EQUIPMENT

Approval Number: D01-1128JP

TELECOM ENGINEERING CENTER Approval Number: 03NY.A0018, 03GZDA0017

The following restrictions apply:

- Do not disassemble or modify the device.
- Do not install the embedded wireless module into other device.
- 5.17 GHz to 5.23 GHz for indoor use only.

Radio approvals for wireless devices

NOTE The following information is dependent on what type of wireless device is in your computer.

Approved Countries/Regions for use for the Atheros AR5BMB-43/44 Mini PCI Wireless network adapter

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION Do not use this equipment except in the countries/regions in the following table.

NOTE This device works on passive scan only.

A peer-to-peer mode is not available in 802.11a and Turbo Mode.

802.11b (2.4 GHz)

Australia	Austria	Belgium
Canada	Denmark	Finland
France	Germany	Greece
Ireland	Italy	Liechtenstein
Luxembourg	Netherlands	New Zealand
Norway	Portugal	Sweden
Switzerland	UK	USA

Europe - Restrictions for use of 2.4 GHz Frequencies in European Community Countries

België/ Belgique:	For private usage outside buildings across public grounds over less than 300m no special registration with IBPT/BIPT is required. Registration to IBPT/BIPT is required for private usage outside buildings across public grounds over more than 300m. For registration and license please contact IBPT/BIPT.
	Voor privé-gebruik buiten gebouw over publieke groud over afstand kleiner dan 300m geen registratie bij BIPT/IBPT nodig; voor gebruik over afstand groter dan 300m is wel registratie bij BIPT/IBPT nodig. Voor registratie of licentie kunt u contact opnemen met BIPT.
	Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de I'IBPT est requise. Pour les enregistrements et licences, veuillez contacter I'IBPT.
Deutschland:	License required for outdoor installations. Check with reseller for procedure to follow.
	Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig.Bitte mit Händler die Vorgehensweise abstimmen.
France:	Restricted frequency band: only channels 1 to 7 (2400 MHz and 2454 MHz respectively) may be used outdoors in France. Please contact A.R.T. (http://www.art-telecom.fr) for applicable procedures to follow.
	Bande de fréquence restreinte: seuls les canaux 1- 7 (2400 et 2454 MHz respectivement) doivent être utilisés endroits extérieur en France. Vous pouvez contacter I'Autorité de Régulation des Télécommuniations (http://www.art-telecom.fr) pour la procédure à suivre.
Italia:	License required for indoor use. Use with outdoor installations not allowed.
	E'necessaria la concessione ministeriale anche per l'uso interno. Verificare con i rivenditori la procedura da seguire.
Nederland:	License required for outdoor installations. Check with reseller for procedure to follow.
	Licentie verplicht voor gebruik met buitenantennes. Neem contact op met verkoper voor juiste procedure.

802.11a (5 GHz)

Australia	Austria	Belgium
Canada	Denmark	Finland
France	Germany	Greece
Ireland	Italy	Liechtenstein
Luxembourg	Netherlands	New Zealand
Norway	Portugal	Sweden
Switzerland	UK	USA

Turbo Mode (5 GHz)

Canada	USA	

Europe - Restrictions for use of 5 GHz Frequencies in European Community Countries

European Community Countries	5150-5250 MHz Channels: 36, 40, 44, 48 Indoor Only	5250-5350 MHz Channels: 52, 56, 60, 64 Indoor Only	5470-5725 MHz Channels: 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140 Indoor/Outdoor
Austria	O	x	x
Belgium, France, Switzerland/Lichtenstein	O	O	x
Denmark, Finland, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Sweden, UK	O	O	O
Iceland, Spain	O	O	O

O: allowed ×: forbidden

- To remain in conformance with European spectrum usage laws for Wireless LAN operation, the above 2.4 GHz and 5 GHz channel limitations apply. The user should use the wireless LAN utility to check the current channel of operation. If operation is occurring outside of the allowable frequencies as listed above, the user must cease operating the Wireless LAN at that location and consult the local technical support staff responsible for the wireless network.
- The 5 GHz Turbo mode feature is not allowed for operation in any European Community country.

- This device must not be operated in ad-hoc mode using channels in the 5 GHz bands in the European Community. Ad-hoc mode provides a direct communication between two client devices without a Wireless LAN Access Point.
- This device must be used with Access Points that have employed and activated a radar detection feature required for European Community operation in the 5 GHz bands. This device will operate under the control of the Access Point in order to avoid operating on a channel occupied by any radar system in the area. The presence of nearby radar operation may result in temporary interruption of operation of this device. The Access Point's radar detection feature will automatically restart operation on a channel free of radar. You may consult with the local technical support staff responsible for the wireless network to ensure the Access Point device(s) are properly configured for European Community operation.

Approved Countries/Regions for use for the Atheros AR5001X Mini PCI Wireless network adapter

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION Do not use this equipment except in the countries/regions in the following table.

NOTE This device works on passive scan only.

A peer-to-peer mode is not available in 802.11a and Turbo Mode.

802.11b (2.4 GHz)

Australia	Austria	Belgium
Canada	Denmark	Finland
France	Germany	Greece
Ireland	Italy	Liechtenstein
Luxembourg	Netherlands	New Zealand
Norway	Portugal	Sweden
Switzerland	UK	USA

802.11a (5 GHz)

Australia	Austria	Belgium
Canada	Denmark	Finland
France	Germany	Greece
Ireland	Italy	Liechtenstein
Luxembourg	Netherlands	New Zealand
Norway	Portugal	Sweden
Switzerland	UK	USA

Turbo Mode (5 GHz)

Canada	USA	

Approved Countries/Regions for use for the Intel® PRO/ Wireless LAN 2100 3B Mini PCI Adapter

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION Do not use this equipment except in the countries/regions in the following table.

Argentina	Australia	Austria
Belgium	Brazil	Canada
Chile	Denmark	Finland
France	Germany	Greece
Iceland	Ireland	Italy
Japan	Liechtenstein	Luxembourg
Mexico	Netherlands	New Zealand
Norway	Peru	Portugal
Singapore	Spain	Sweden
Switzerland	UK	Uruguay
USA	Venezuela	

Approved Countries/Regions for use for the Toshiba Mini PCI Wireless LAN Card

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION Do not use this equipment except in the countries/regions in the following table.

Australia	Austria	Belgium
Canada	Denmark	Finland
France	Germany	Greece
Hong Kong	Iceland	Ireland
Italy	Japan	Liechtenstein
Luxembourg	Malaysia	Netherlands
New Zealand	Norway	Philippines
Portugal	Singapore	Spain
Sweden	Switzerland	Thailand
UK	USA	

Bluetooth wireless technology Interoperability

Bluetooth™ Cards from TOSHIBA are designed to be interoperable with any product with Bluetooth wireless technology that is based on Frequency Hopping Spread Spectrum (FHSS) radio technology, and is compliant to:

- Bluetooth Specification as defined and approved by The Bluetooth Special Interest Group.
- Logo certification with Bluetooth wireless technology as defined by The Bluetooth Special interest Group.

CAUTION Bluetooth wireless technology is a new innovative technology, and TOSHIBA has not confirmed compatibility of its Bluetooth™ products with all PCs and/or equipment using Bluetooth wireless technology other than TOSHIBA portable computers.

Always use Bluetooth™ cards from TOSHIBA in order to enable wireless networks over two or more (up to a total of seven) TOSHIBA portable computers using these cards. Please contact TOSHIBA PC product support on Web site http://www.toshiba-europe.com/computers/tnt/bluetooth.htm in Europe or http://www.pcsupport.global.toshiba.com in the United States for more information.

When you use Bluetooth™ cards from TOSHIBA close to 2.4 GHz Wireless LAN devices, Bluetooth transmissions might slow down or cause errors. If you detect certain interference while you use Bluetooth™ cards from TOSHIBA, always change the frequency, move your PC to the area outside of the interference range of 2.4 GHz Wireless LAN devices (40 meters/43.74 yards or more) or stop transmitting from your PC. Please contact TOSHIBA PC product support on Web site http://www.toshiba-europe.com/computers/tnt/bluetooth.htm in Europe or http://www.pcsupport.global.toshiba.com in the United States for more information.

Bluetooth™ and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth™ and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection. If you should experience any such problem, immediately turn off either one of your Bluetooth™ or Wireless LAN. Please contact Toshiba PC product support on Web site http://www.toshiba-europe.com/computers/tnt/bluetooth.htm in Europe or http://www.pcsupport.global.toshiba.com in the United States for more information.

Bluetooth wireless technology and your Health

The products with Bluetooth wireless technology, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by devices with Bluetooth wireless technology however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because products with Bluetooth wireless technology operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Bluetooth wireless technology is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of Bluetooth wireless technology may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- Using the equipment with Bluetooth wireless technology on board airplanes, or
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment (e.g. airports), you are encouraged to ask for authorization to use the device with Bluetooth wireless technology prior to turning on the equipment.

Regulatory statements

This product complies with any mandatory product specification in any country/region where the product is sold. In addition, the product complies with the following:

European Union (EU) and EFTA

This equipment complies with the R&TTE directive 1999/5/EC and has been provided with the CE mark accordingly.

Canada — Industry Canada (IC)

This device complies with RSS 210 of Industry Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device."

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit étre prét à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

Caution: FCC Interference Statement

This device complies with part15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

Note that any changes or modifications to this equipment not expressly approved by the manufacturer may void the authorization to operate this equipment.

Caution: Exposure to Radio Frequency Radiation

The radiated output power of the Bluetooth™ Card from TOSHIBA is far below the FCC radio frequency exposure limits. Nevertheless, the Bluetooth™ Card from TOSHIBA shall be used in such a manner that the potential for human contact during normal operation is minimized.

In order to comply with FCC radio-frequency radiation exposure guidelines for an uncontrolled environment, the Bluetooth™ Card from TOSHIBA has to be operated while maintaining a minimum body to antenna distance of 20 cm.

Refer to the Regulatory Statements as identified in the documentation that comes with those products for additional information.

The Bluetooth™ Card from TOSHIBA is far below the FCC radio frequency exposure limits.

Nevertheless, it is advised to use the Bluetooth™ Card from TOSHIBA in such a manner that human contact during normal operation is minimized.

NOTE Changes or modifications made to this equipment not expressly approved by TOSHIBA or parties authorized by TOSHIBA could void the user's authority to operate the equipment.

Taiwan

Article 14	Unless approved, for any model accredited low power radio frequency electric machinery, any company, trader or user shall not change the frequency, increase the power or change the features and functions of the original design.
Article 17	Any use of low power radio frequency electric machinery shall not affect the aviation safety and interfere with legal communications. In event that any interference is found, the use of such electric machinery shall be stopped immediately, and reusing of such products can be resumed until no interference occurs after improvement.

The legal communications mentioned in the above item refer to radio communications operated in accordance with telecommunication laws and regulations.

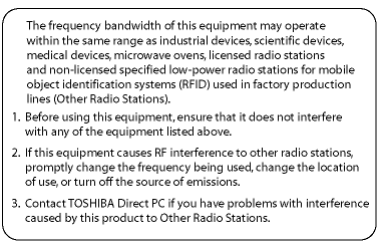
Low power radio frequency electric machinery shall resist against interference from legal communications or from industrial, scientific and medical radio emission electric machinery.

Using this equipment in Japan

In Japan, the frequency bandwidth of 2,400 MHz to 2,483.5 MHz for second generation low-power data communication systems such as this equipment overlaps that of mobile object identification systems (premises radio station and specified low-power radio station).

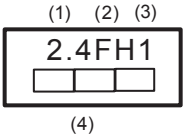
1. Sticker

Please put the following sticker on devices incorporating this product.


The frequency bandwidth of this equipment may operate within the same range as industrial devices, scientific devices, medical devices, microwave ovens, licensed radio stations and non-licensed specified low-power radio stations for mobile object identification systems (RFID) used in factory production lines (Other Radio Stations).
1. Before using this equipment, ensure that it does not interfere with any of the equipment listed above.
2. If this equipment causes RF interference to other radio stations, promptly change the frequency being used, change the location of use, or turn off the source of emissions.
3. Contact TOSHIBA Direct PC if you have problems with interference caused by this product to Other Radio Stations.

2. Indication

The indication shown below appears on this equipment.



1. 2.4: This equipment uses a frequency of 2.4 GHz.
2. FH: This equipment uses FH-SS modulation.
3. The interference range of this equipment is less than 10m.
4. This equipment uses a frequency bandwidth from 2,400 MHz to 2,483.5 MHz. It is impossible to avoid the band of mobile object identification systems.

3. TOSHIBA Direct PC

Monday – Friday: 10:00 – 17:00

Toll Free Tel: 0120-13-1100

Direct Dial: 03-3457-5916

Fax: 03-5444-9450

Device Authorization

This device obtains the Technical Regulation Conformity Certification, and it belongs to the device class of radio equipment of low-power data communication system radio station stipulated in the Radio Law of Japan.

The Name of the radio equipment: EYXF2CS

TELECOM ENGINEERING CENTER

Approval Number: 01NYDA1305

The following restrictions apply:

- Do not disassemble or modify the device.
- Do not install the embedded wireless module into other device.

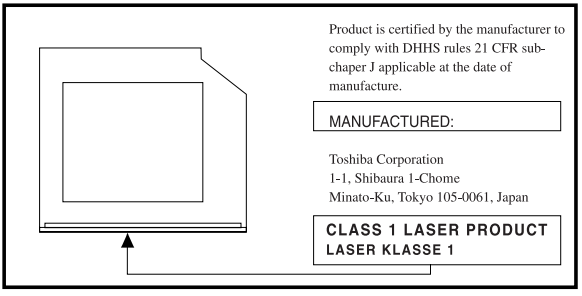
DVD-ROM, multi-function drive safety instructions

DANGER The DVD-ROM and multi-function drives employ a laser system. To ensure proper use of this product, please read this instruction manual carefully and retain for future reference.

Never attempt to disassemble, adjust or repair a CD/DVD drive, CD-RW drive, Multi-drive or any other optical drive. You could damage the drive. You would also be exposed to laser light or other safety hazard, resulting in serious injury. Always contact an authorized Toshiba service provider, if any repair or adjustment is required.

Location of the required label

(Sample shown below. Location of the label and manufacturing information may vary.)


Product is certified by the manufacturer to comply with DHHS rules 21 CFR sub-chaper J applicable at the date of manufacture.
MANUFACTURED:
Toshiba Corporation
1-1, Shibaura 1-Chome
Minato-Ku, Tokyo 105-0061, Japan
CLASS 1 LASER PRODUCT
LASER KLASSE 1

DANGER This appliance contains a laser system and is classified as a CLASS 1 LASER LASER PRODUCT. To use this model properly, read the user's guide carefully and keep it for your future reference.

Never attempt to disassemble, adjust or repair a CD/DVD drive, CD-RW drive, Multi-drive or any other optical drive. You could damage the drive. You would also be exposed to laser light or other safety hazard, resulting in serious injury. Always contact an authorized Toshiba service provider, if any repair or adjustment is required.

CLASS 1 LASER PRODUCT
LASSER KLASSE 1

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TouchPad is a trademark of Synaptics, Inc.

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xD-Picture Card is a trademark of Fuji.

ExpressCard is a trademark of PCMCIA.

MultiMediaCard is a trademark of Infineon Technologies AG.

All other brand and product names are trademarks or registered trademarks of their respective companies.

Computer disposal information

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal, reuse or recycling information, please contact your local government or the Electronic Industries Alliance at www.eiae.org.

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Introduction

Welcome to the world of powerful, portable multimedia computing. With your Toshiba notebook computer your work can accompany you wherever you go.

Toshiba notebook computers provide considerable computing power, enabling you to perform the most demanding computing tasks from any location.

Your system comes with the Microsoft® Windows® XP Home or Windows XP Professional operating system. Your operating system offers exciting features and easy Internet access.

This guide contains information about your operating system and how it functions with your Toshiba computer. For specific information on the software see the Microsoft booklet that shipped with your computer.

NOTE The product specifications and configuration information are designed for a product Series. Your particular model may not have all the features and specifications listed or illustrated. For more detailed information about the features and specifications on your particular model, visit Toshiba's Web site at pcsupport.toshiba.com.

While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. For the most up-to-date product information about your computer, or to stay current with the various computer software or hardware options, visit Toshiba's Web site at pcsupport.toshiba.com.

This guide

This guide introduces the computer's features. You can:

- Read the entire guide from beginning to end.
- Skim through and stop when a topic interests you.
- Use the table of contents and the index to find specific information.

If you are new to computers or have not used a notebook computer before, read through the first couple of chapters to familiarize yourself with the components of the computer and how to turn it on. After that, seek out whatever interests you most.

Safety icons

This manual contains safety instructions that must be observed in order to avoid potential hazards that could result in personal injuries, damage to your equipment, or loss of data. These safety cautions have been classified according to the seriousness of the risk, and the icons highlight these instructions as follows:

⚠ DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in property damage.
NOTE	Provides important information.

Other icons used

Additional icons highlight other helpful or educational information:

TECHNICAL NOTE: This icon highlights technical information about the computer.

HINT: This icon denotes helpful hints and tips.

DEFINITION: This icon indicates the definition of a term used in the text.

Other documentation

Your computer comes with the following documentation:

- This electronic user's guide.
- Guides for other programs that may come preinstalled on your computer or that are available for installation on your Recovery media (if applicable to your system).
- For accessory information, visit Toshiba's Web site at accessories.toshiba.com.
- The Microsoft® Windows® operating system documentation which explains the features of the operating system.

Service options

Toshiba offers a full line of optional service programs to complement its limited warranty. To stay current on the most recent software and hardware options for your computer, and for other product information, be sure to regularly check the Toshiba Web site at pcsupport.toshiba.com.

If you have a problem or need to contact Toshiba, see "If you need further assistance" on page 231.

Chapter 1

Getting Started

This chapter provides tips for working comfortably, describes how to connect components, and explains what to do the first time you use your computer.

Selecting a place to work

Your computer is designed to be used in a variety of locations and situations. This section provides guidelines for setting up your computing environment.

Creating a computer-friendly environment

Place the computer on a flat surface that is large enough for the computer and any other items you need to use, such as a printer. Leave enough space around the computer and other equipment to give adequate ventilation and prevent overheating.

To keep your computer in prime operating condition, protect your work area from:

- Dust, moisture, and direct sunlight.

- Equipment that generates a strong electromagnetic field, such as large stereo speakers (other than speakers that are connected to the computer) or speakerphones.
- Rapid changes in temperature or humidity and sources of temperature change such as air conditioner vents or heaters.
- Extreme heat, cold, or humidity.
- Liquids and corrosive chemicals.

CAUTION If you spill liquid into the computer, turn off the computer, unplug it from the AC power source, and let it dry out completely before turning it on again.

If the computer does not operate correctly after you turn it back on, contact your network administrator. Refer to "If you need further assistance" on page 231 for more information.

Keeping yourself comfortable

Strain and stress injuries are becoming more common as people spend more time using their computers. However, with a little care and the proper use of the equipment you can work comfortably throughout the day.

This section provides hints on avoiding strain and stress injuries. For more information, consult books on ergonomics, repetitive-motion injury, and repetitive-stress syndrome.

WARNING Using the computer keyboard incorrectly can result in discomfort and possible injury. If your hands, wrists, and/or arms hurt while typing, stop using the computer and rest. If the discomfort persists, consult a physician.

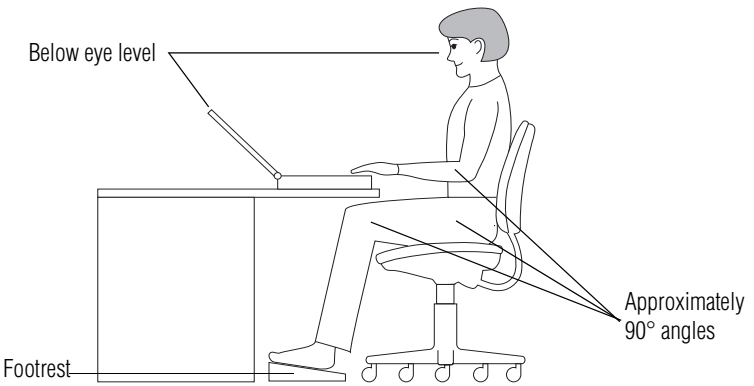
Placement of the computer

Proper placement of the computer and external devices is important to avoid stress-related injuries. Consider the following when placing your computer.

- Place the computer on a flat surface at a comfortable height and distance. You should be able to type without twisting your torso or neck and look at the screen without slouching.
- If you use an external monitor, the top of the screen should be no higher than eye level.
- If you use a paper holder, set it at the same height and distance as the screen.

Seating and posture

When using your computer, maintain good posture with your body relaxed and your weight distributed evenly. Proper seating is a primary factor in reducing work strain. Some people find a backless chair more comfortable than a conventional chair.



Correct posture and positioning of the computer

- Position your chair so that the keyboard is at or slightly below the level of your elbow. You should be able to type

comfortably with your shoulders relaxed and your forearms parallel to the floor.

If you are using a conventional chair:

- Your knees should be slightly higher than your hips. If necessary, use a footrest to raise the level of your knees and ease the pressure on the back of your thighs.
- Adjust the back of your chair so that it supports the lower curve of your spine. If necessary, use a cushion to provide extra back support. Lower-back support cushions are available at many office supply stores.
- Sit with your back straight so that your knees, hips, and elbows form approximately 90-degree angles when you work. Do not slump forward or lean back too far.

Lighting

Proper lighting can improve the readability of the display and reduce eyestrain.

- Position the display panel or external monitor so that sunlight or bright indoor lighting does not reflect off the screen. Use tinted windows or shades to reduce glare.
- Avoid placing your computer in front of a bright light that shines directly into your eyes.
- If possible, use soft, indirect lighting in your computer work area.

⚠ CAUTION Your LCD display has a brightness approaching that of a TV device. We recommend that you adjust the brightness of your LCD to a comfortable level to prevent possible strain on your eyes.

Arms and wrists

- Avoid bending, arching, or twisting your wrists. Keep them in a relaxed, neutral position while typing.
- Exercise your hands, wrists, and arms to improve circulation.

WARNING Using the computer keyboard incorrectly may result in discomfort and possible injury. If your hands, wrists, and/or arms bother you while typing, stop using the computer and rest. If the discomfort persists, consult a physician.

Work habits

The key to avoiding discomfort or injury from strain is to vary your activities. If possible, schedule a variety of tasks into your working day. Finding ways to break up the routine can reduce stress and improve your efficiency.

- Take frequent, short breaks to change position, stretch your muscles, and relieve your eyes. A break of two or three minutes every half hour is more effective than a long break after several hours.
- Avoid performing repetitive activities for long periods. Intersperse such activities with other tasks.
- Focusing your eyes on your computer screen for long periods can cause eyestrain. Look away from the computer frequently and focus your eyes on a distant object for at least 30 seconds.

CAUTION Your LCD display has a brightness approaching that of a TV device. We recommend that you adjust the brightness of your LCD to a comfortable level to prevent possible strain on your eyes.

Other precautions

Your notebook computer is designed to provide optimum safety and ease of use, and to withstand the rigors of travel. You should observe certain precautions to further reduce the risk of personal injury or damage to the computer.

- Avoid prolonged physical contact with the underside of the computer.

  If the computer is used for long periods, its case can become very warm. While the temperature may not feel too hot to the touch, if you maintain physical contact with the computer for a long time (if you rest the computer on your lap, for example), your skin might suffer low-heat injury.

⚠ CAUTION Some PC Cards can become hot with prolonged use. Overheating of a PC Card can result in errors or instability in its operation.

Be careful when you remove a PC Card that has been used for a long period.

CAUTION Never apply heavy pressure to the computer or subject it to sharp impacts. Excessive pressure or impact can damage computer components or otherwise cause your computer to malfunction.

- Avoid spilling liquids into the computer's keyboard.

  If you do spill a liquid that gets into the keyboard, turn off the computer immediately. Leave the computer turned off overnight to let it dry out before you use it again.

- Never turn off the computer if a drive light indicates a drive is active.

Turning off the computer while it is reading from or writing to a disk may damage the disk, the drive, or both.

- Keep the computer and disks away from objects that generate strong magnetic fields, such as large stereo speakers.

  Information on disks is stored magnetically. Placing a magnet too close to a disk can erase important files.

- Scan all new files for viruses.

  This precaution is especially important for files you receive via email or download from the Internet. Occasionally, even new programs you buy from a supplier may contain a computer virus. You need a special program to check for viruses. Ask your dealer to help you.

Important information on your computer's cooling fan

Your computer may have a CPU cooling fan that cools the CPU by drawing outside air into the computer. The cooling fan may be located on the bottom of the computer.

CAUTION To prevent possible overheating of the CPU, make sure the air intake on the cooling fan is not blocked. The fan draws in air by creating a vacuum. If the fan is blocked, it could cause the CPU to run at a lower performance level or cause the computer to shut down. Loose items such as notebook and tissue paper, plastic wrappers, or other similar materials can block the air intake, preventing air from reaching the CPU. Do not use the computer on surfaces with objects that can be drawn in by the cooling fan.

NOTE The cooling fan location varies depending on the computer.

Setting up your computer

TECHNICAL NOTE: You must complete all setup steps up to "Setting up your software" on page 57 before adding external or internal components to your computer. These components include, but are not limited to, a mouse, keyboard, printer, memory, and PC cards.

Your computer comes with a rechargeable battery pack that must be charged before you can use it.

To use external power or to charge the battery, you must attach the AC adapter. See "Connecting to a power source" on page 50.

To register your computer online, or to sign up for an Internet account, you must connect the built-in modem to a telephone line.

Before adding any of these devices to the computer, be sure to complete "Setting up your software" on page 57.

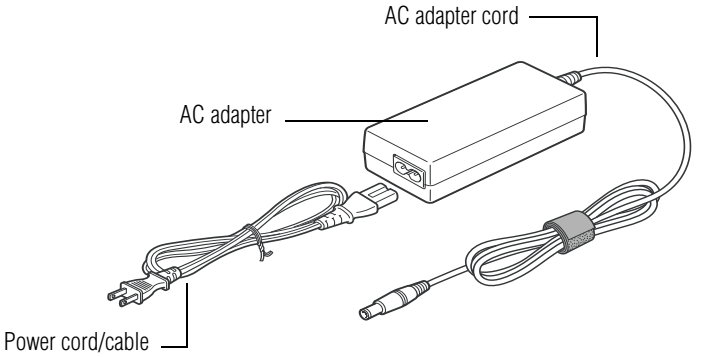
After setting up your computer, you may want to:

- Add more memory. See "Adding memory" on page 70.
- Connect a mouse. See "Connecting a mouse" on page 65.
- Connect a full-size keyboard. See "Using an external keyboard" on page 64.
- Connect an external monitor. See "Using external display devices" on page 60.
- Connect a local printer. See "Connecting a local printer" on page 66.
- Install PC Cards. See "Inserting and removing PC Cards" on page 91.

For more information on installing specific devices, see "Connecting Other External Devices" on page 60.

Connecting to a power source

Your computer requires power to operate. Use the power cord/cable and AC adapter cord to connect the computer to a live electrical outlet, or to charge the computer's battery.



Sample power cord/cable and AC adapter cord

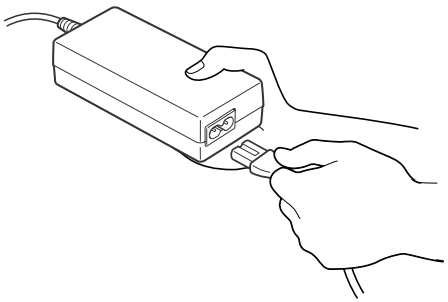
WARNING Hold the power cord/cable by its plug when you connect/disconnect it. Do NOT pull the cord/cable itself. Doing so may damage the power cord/cable and result in a short circuit or electric shock.

WARNING When you connect the AC adapter to the computer, always follow the steps in the exact order as described in the User's Guide. Connecting the power cord/cable to a live electrical outlet should be the last step; otherwise, the adapter DC output plug could hold an electrical charge and cause an electrical shock or minor bodily injury when touched. As a general safety precaution, avoid touching any metal parts.

CAUTION Use only the AC adapter supplied with your computer or an equivalent adapter that is compatible. Use of any incompatible adapter could damage your computer. Toshiba assumes no liability for any damage caused by use of an incompatible adapter.

To connect AC power to the computer:

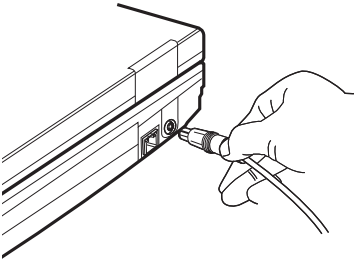
1 Connect the power cord/cable to the AC adapter.



Sample connecting the power cord/cable to the AC adapter cord

WARNING Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. ***Wash hands after handling.***

2 Plug the AC adapter cord into the DC-IN on the back of the computer.



Sample connecting the AC adapter cord to the computer

3 Connect the power cord/cable to a live electrical outlet.

The AC power indicator glows when the computer is connected to an external power source.

The battery light:

- Glows amber while the battery is being charged.
- Glows green when the battery is fully charged.
- Is unlit when the computer is not connected to an external power source. For information on determining battery power, see "Monitoring battery power" on page 138.

WARNING Damaged power cords/cables can cause fire or electric shock. Never modify, forcibly bend, place heavy objects on top of, or apply heat to the power cord/cable.

If the power cord/cable becomes damaged or the plug overheats, discontinue use. There is a risk of electric shock.

Never remove the power plug from the outlet with wet hands. Doing so may cause an electric shock.

Charging the battery

To charge the main battery, plug the computer into a live wall outlet. It takes several hours to charge the battery with the computer off. It takes much longer to charge the battery while the computer is on. For more information on battery use, see "Running the computer on battery power" on page 134.

CAUTION Once the battery is charged for the first time, avoid leaving the computer plugged in and turned off for more than a few hours at a time. Continuing to charge a fully charged battery can damage the battery.

TECHNICAL NOTE: When your computer is using all of the power provided by the AC Adapter to run applications, features, and devices, the recharging of the battery cannot occur. Your computer's Power Saver utility can be used to select a power level setting that reduces the power required for system operation and allows the battery to recharge.

NOTE Battery life and charge time may vary depending on the applications, power management settings, and features used.

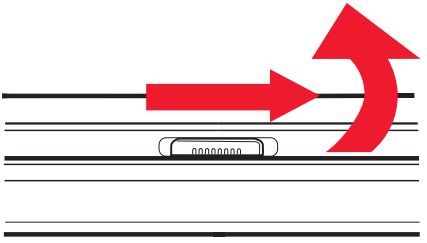
Turning on the computer

The computer is now ready for you to turn it on and begin using it.

Opening the display panel

1 Slide the display latch to the right.

2 Lift the display panel.



Sample opening the display panel

CAUTION To avoid damaging the display panel, do not force it beyond the point where it moves easily.

Never lift the computer by the display panel.

Small bright dots may appear on your TFT display when you turn on your computer. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology.

NOTE Over a period of time, and depending on the usage of the computer, the brightness of the LCD Screen will deteriorate. This is an intrinsic characteristic of LCD technology.

The screen will dim when the computer is operated on battery power and you may not be able to increase the brightness of the screen.

Your computer's features and specifications

Certain notebook chassis are designed to accommodate all possible configurations for an entire product Series. Your selected model may not have all the features and specifications corresponding to all of the icons or switches shown on the notebook chassis, unless you have selected all those features.

Below are examples of some of the many possible icons that may come on your computer:

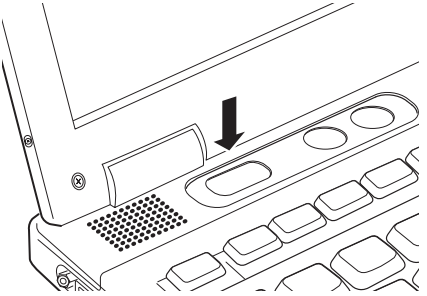
Sample system icons

This information applies to all the features and icons described in this guide.

Turning on the power

To turn on the computer:

1. Make sure any external devices (such as the AC adapter, if you plan to use AC power rather than battery power) are properly connected and ready.
2. Check to ensure that any diskette drives are empty.
3. Press and hold the power button in until the on/off light on the system indicator panel glows green—about one second.



Sample turning on the power

The preinstalled operating system loads automatically.

CAUTION When you turn on the computer for the first time, do not turn off the power again until the operating system has loaded completely.

CAUTION Never turn off the computer while any drive is in use.

Setting up your software

NOTE The names of windows displayed, and the order in which windows appear, may vary according to your software setup choices.

The first time you turn on your computer, the Setup Wizard guides you through steps to set up your software.

1. From the welcome screen, click **Next** to enter the Setup Wizard.
2. Confirm acceptance of Microsoft's End User License Agreement and click **Next**.
3. Select the appropriate option from the Help Protect Your Computer screen and click **Next**.
4. Enter the computer name and description and click **Next**.
5. Select how your computer will connect to the internet and click **Next**.

   The computer pauses for a moment while checking for an internet connection.

   A window displays the message "An Internet connection could not be chosen."

NOTE If you are connecting your computer to a network, consult your system administrator before you choose your computer name and network settings.

6. Follow the remaining prompts to complete the setup process.

   Once you click the final screen, your computer restarts automatically.

Registering your computer with Toshiba

Product registration is strongly recommended and allows Toshiba to send the Customer periodic updates, announcements, and special offers applicable to the product. Product registration can be completed during the initial start up process of your computer. If you opt not to register at that time, you can either double-click the icon on your desktop or go to the Toshiba Web site at www.register.toshiba.com. Customer failure to complete Product Registration will not diminish Customer rights under this limited Warranty.

Setting up other devices

You may want to take this time to set up your printer or other peripheral devices. For more information, see "Connecting a local printer" on page 66.

Turning off the computer

It is a good idea to turn off your computer when you are not using it for a while.

If you are using the computer for the first time, leave the computer plugged into a power source (even though the computer is off) to fully charge the main battery. With the computer off, it may take up to three hours to recharge the main battery.

When you power down the computer, you have three options to choose from: Turn Off (or Shut down), Hibernate and Stand By. Each option has its advantages.

- Use the Turn Off command if you are using the Windows® XP Home version operating system, or the Windows® XP Professional operating system when not connected to a domain server.
- Use the Shut down command if you are using the Windows® XP Professional operating system and connected to a domain server.

- If you have work in progress and are not connected to a network, use the Windows® Stand By or Hibernate commands to save your system settings to memory. The next time you turn on the computer, you automatically return to where you left off.
- To leave the computer off for a longer period, you can use the Windows® Turn Off command when not connected to a domain server or the Shut down when connected to a domain server instead.

CAUTION Never turn off the computer while any drive is in use. Doing so may damage the media in use and result in loss of data. For more information, see "Powering down the computer" on page 124.

Closing the display panel

When you are finished, shut the computer down and close the display panel to keep dust and dirt out of the computer.

If you close the computer while it is still on, the following actions occur:

- If you have the LCD power-saver feature set, the LCD panel automatically turns off until you open it again.
- If you have the audible warning set, the computer beeps to notify you that it is still on.
- If you have an action feature set, the computer performs Nothing, Stand By, or Hibernate (see "Using Hibernation" on page 127).

Chapter 2

Connecting Other External Devices

This chapter describes how to connect devices that can increase the capabilities of your computer.

Using external display devices

Your computer comes with a built-in LCD display, but you can also connect three different types of external display devices to one of two available video ports:

- A television via the S-video port.
- A video display device, such as a video projection unit, via the S-video port.
- An external monitor or projector via the RGB (monitor) port.

Connect a television, video projector, monitor, or other display device to your computer and then configure your computer for the type of device you are connecting. The following sections describe how to do this in detail. Also, refer to the documentation for your operating system and devices.

Connecting the display device

If you are connecting a television or other video display device to the computer's S-video port, first refer to the next two subsections.

If you are connecting an SVGA monitor, skip to "Connecting an external monitor or projector" on page 62.

Selecting video cables

To connect a device to the S-video port, you must purchase an S-video cable. For the best video quality, always use a properly shielded cable.

HINT: Toshiba recommends using a cable no longer than 20 feet (approximately 6 meters).

Using a poor quality cable may result in a dull or fuzzy picture, poor color, ghosting, video noise, or loss of video.

Connecting to the S-video port

NOTE Video cables are not included with your computer. To connect a device to the S-video port, you must purchase an S-video cable.

1. Connect one end of the S-video cable to the external video device.

   Refer to the documentation provided with the device for the location of its S-video-in port.

2. Connect the other end of the S-video cable to the S-video port on the back side of the computer.
3. Turn on the external video device.

4 Set the display mode by pressing Fn + F5 or by using the Display Properties settings. For more information, see "Directing the display output when you turn on the computer" below.

Connecting an external monitor or projector

You can easily attach an external monitor or projector to your computer if you need a larger screen. To do this:

1 Connect the monitor's video cable to the RGB port on the back of the computer.

2 Connect the device's power cable to a live electrical outlet.

3 Turn on the external device.

4 Set the display mode by pressing Fn + F5 or by setting the Display Properties settings. For more information, see "Directing the display output when you turn on the computer" below.

Directing the display output when you turn on the computer

Once you have connected an external display device, you can choose to use the internal display only, the external device only, or both simultaneously. The quickest way to change the display output settings is to use the display hot key (Fn + F5):

1 Press Fn and F5 simultaneously.

2 While holding down Fn, press F5 repeatedly until the setting you want takes effect.

This hot key cycles through the settings in the following order:

- Built-in display only
- Built-in display and external device simultaneously
- External device only

- Built-in display and TV (or other external video device) simultaneously
- TV (or other external video device) only

3 Release the Fn key.

TECHNICAL NOTE: You can also change these settings using the Display Properties Box.

Set the option for the video controller by clicking Start, then Control Panel and clicking Display. Choose the Settings tab, click the Advanced button, select Display Device, select the applicable Monitor type, click Apply or OK.

For more information on switching the display output, see "Display modes" on page 240.

Adjusting the quality of the external display

To obtain the best picture quality from your television (or other video display device), you may need to adjust the video settings. See the video device documentation for additional configuration steps.

TECHNICAL NOTE: To use one of the simultaneous modes, you must set the resolution of the internal display panel to match the resolution of the external display device.The external display device must support a resolution of 640 x 480 or higher.

Video limitations

Keep in mind that the quality of the display is limited to the capabilities of the external video device.

- If the external video device, such as an SVGA monitor, is capable of displaying at a maximum resolution of 640 x 480 and your system is set for a higher resolution, only part of the desktop appears on the screen. You can scroll to view the "lost" area.
- Since most televisions and video projectors overscan by 15 to 20 percent, some of the desktop will be outside the viewing area. You can scroll to view the edge of the desktop.
- If you use the display hot key (Fn + F5) to change the display output with the LCD Display Stretch option enabled and the display area (resolution) set to 640 x 480 or 800 x 600, the image on the internal display panel may appear stretched.

Using an external keyboard

If you prefer to use a full-size keyboard, you can attach a USB keyboard to a USB port on your computer or a PS2 keyboard to an optional Advanced Port Replicator III. See your Toshiba sales representative for more information.

Connecting a keyboard

To connect a USB keyboard, gently push the keyboard cable into the USB port. To connect a PS2 keyboard, gently push the keyboard cable into the PS2 port of an optional Advanced Port Replicator III.

Making your external keyboard emulate the Fn key

An external keyboard does not have the Fn key provided by the computer's built-in keyboard. You can use the Fn Key Emulation option in Toshiba Hardware Setup to assign an external keyboard key combination to emulate the internal keyboard's Fn key.

In Toshiba Hardware Setup, you can emulate the Fn keys by setting key combinations in the keyboard option of the utility. See "TOSHIBA HW Setup" on page 173 for more information.

NOTE The Fn emulation key is not supported when using a USB keyboard.

Using a mouse

If you prefer to use a standard mouse, you can attach a USB mouse to a USB port on your computer, or a PS2 or serial mouse to an optional Advanced Port Replicator III. See your Toshiba sales representative for more information.

Connecting a mouse

To connect a USB mouse, gently push the keyboard cable into the USB port. To connect a PS2 or serial mouse, gently push the mouse cable into the PS2 or serial port of an optional Advanced Port Replicator III.

Connecting a local printer

CAUTION Your printer documentation may require you to install the printer software before physically connecting the printer to your computer. If you do not install the software as instructed by the printer manufacturer, the printer may not function correctly.

CAUTION Never connect the printer cable while the computer's power is on. Doing so may damage the printer, the computer, or both.

NOTE Read the documentation that came with your printer. Follow the manufacturer's instructions when connecting a local printer.

NOTE You must supply the proper printer cable. If one did not come with your printer, you may purchase one from an electronics or computer store.

If your printer is ECP- or IEEE-compliant and you want to use the parallel port, make sure your printer cable is an IEEE 1284 cable.

Connecting a USB printer

These instructions assume you have a USB printer. Consult the document that came with your printer to verify the connection type.

To connect the printer:

1. If the computer is on, turn it off.
2. Connect the printer cable to the printer and then connect the other end to one of the computer's USB ports.
3. Plug the printer's power cable into a live electrical outlet.
4. See your printer documentation for additional configuration steps.

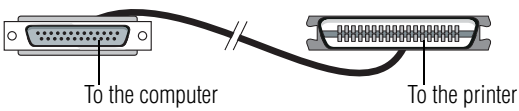
For information about printing, see "Printing your work" on page 114.

Connecting a parallel printer

These instructions assume you have a parallel printer.

To connect the printer:

1. If the computer is on, turn it off.
2. Connect the printer cable to the printer and to the computer's parallel port. Use the printer cable illustration as a connection guide.



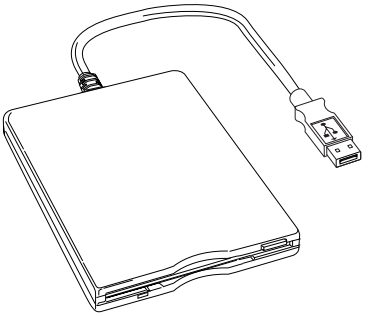
Identifying the ends of a parallel printer cable

3. Plug the printer's power cable into a live electrical outlet.
4. See your printer documentation for additional configuration steps.

For more information on getting your printer to print, see "Printing your work" on page 114.

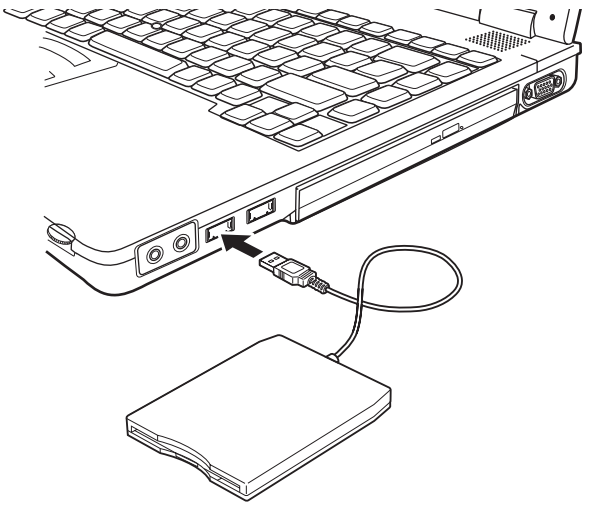
Connecting an optional external diskette drive

Some operations, such as creating a password service diskette, require a diskette drive designed for use with 3.5-inch diskettes.



Sample optional external USB diskette drive

To connect an optional external USB diskette drive, connect the cable to one of the USB ports.



Sample connecting an optional external USB diskette drive

Connecting external speakers or headphones

WARNING Before using headphones to listen to an audio CD, turn the volume dial down. Playing the CD with the volume set too high could damage your ears.

To attach an external stereo output device (headphone or external speakers):

1. Locate the headphone jack on the right side of the computer.
2. Using any necessary adapters, plug the cable from the external audio device into the headphone jack. The headphone jack requires a 3.5 mm, 16-ohm stereo jack.

   When the headphone is inserted, the internal speakers are automatically disabled.

For more information on using headphones or external speakers, see "Using external speakers or headphones" on page 155.

Connecting an external microphone

Your computer comes equipped with an internal microphone, but to record higher quality sounds, you can attach an external microphone:

1. Locate the microphone jack on the right side of the computer.
2. Plug the microphone cord into the microphone jack.
3. Turn on the microphone.

   The internal microphone is automatically disabled.

Once the external microphone is connected, the recording process is the same as with the built-in microphone. For more information, see "Recording sounds" on page 156.

Using an expansion device

The expansion port is used to connect your computer to an expansion device. This is an excellent investment if you are using your computer both in and out of the office.

When you return to your desk, you can then connect to your network, print reports from your computer, or use a mouse instead of the Toshiba Dual Pointing Device. Connecting cables for each of these devices every time you return to the office is time-consuming and inconvenient.

With an expansion device, you can leave external devices connected while you are using your computer away from your desk. When you return, you can quickly connect your computer and have immediate access to all the devices.

For more information, see the accessories information package that comes with the device or visit accessories.toshiba.com.

Adding memory

HINT: To purchase additional memory modules, see the accessories information packaged with your system or visit accessories.toshiba.com.

Your notebook computer is equipped with two memory slots which can provide various memory configurations. When additional memory is added, or original memory replaced, it is recommended that you use only compatible memory. In the event original memory is replaced with invalid memory, the system beeps and will not boot beyond the BIOS memory check. A message may display. If this occurs, turn off the computer and replace the memory with compatible memory, or contact Toshiba's support center at (800) 457-7777.

Installing memory modules

Additional memory modules can be installed in your computer. There are two memory expansion slots (primary and secondary) located under your computer's keyboard. Normally, you will install or replace a memory module in the secondary slot.

NOTE Memory module installation requires significant computer disassembly and reassembly. If you are uncomfortable with this, please contact your Toshiba sales representative for a service professional to complete this procedure.

CAUTION Do not try to remove a memory module with the computer turned on. You may damage the computer, the module, or both.

Do not remove the memory module while the computer is in Stand By mode. The computer could hang up the next time you turn it on and data in memory will be lost. In either of the above cases, the Stand By configuration will not be saved.

The following message appears when you turn on the power from Stand By mode:

Warning: Resume Failure
Press Any Key To Continue

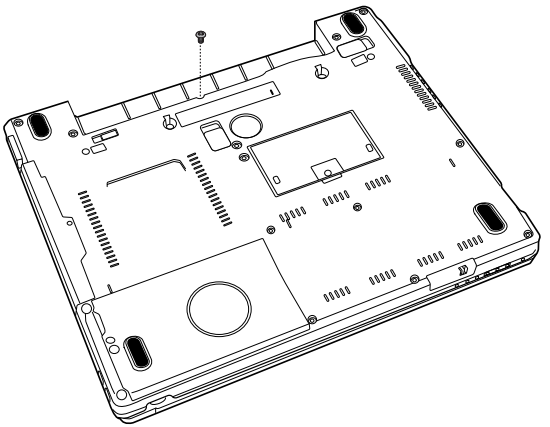
If the computer hangs up when you turn it on, perform the following: Press the power button and hold it down for at least ten seconds, then turn the power on again.

CAUTION To avoid damaging the computer's screws, use a standard Phillips no.0 screwdriver that is in good condition.

1. Shut down your computer completely using the Shut down or Turn Off command.

   See "Turning off the computer" on page 58.

2. Unplug the computer.
3. Close the display panel and remove any cables you may have connected, including the AC adapter cord/cable.
4. Turn the computer upside down and remove the battery.
5. Locate and remove the retaining screw. Place the screw in a safe place so that you can retrieve it later.



Sample removing the retaining screw

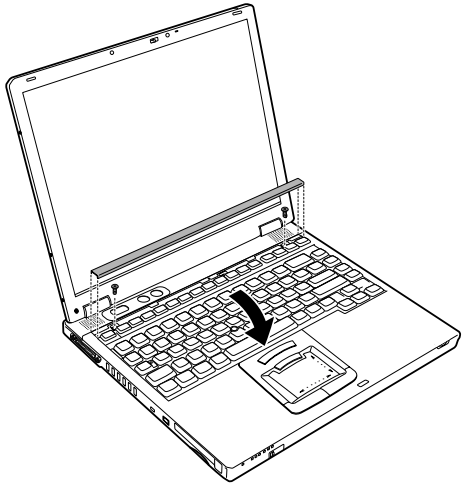
6. Turn the computer over and slide the display latch to the right and open the display panel.
7. Carefully insert a thin object under the rim of the keyboard brace and lift out the brace.

CAUTION The brace is fragile and should not be bent. Pull the brace out by grasping the left and the right sides.

Sample removing the keyboard brace

8 Remove the two screws securing the keyboard. Place the screws in a safe place so that you can retrieve them later.

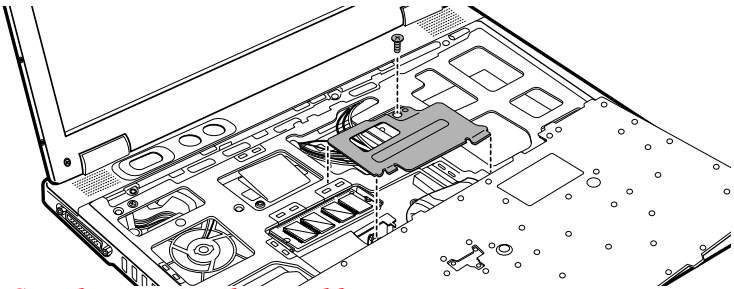
9 Lift up the back of the keyboard, rotate it toward you and lay it face down on the palm rest.



Sample rotating the keyboard

10 Remove the retaining screw and the metal brace. Place the screw in a safe place so that you can retrieve it later.

11 Remove the existing memory module from the slot by pulling the clips away from the memory module. Place the module in antistatic packaging and store it in a safe place.

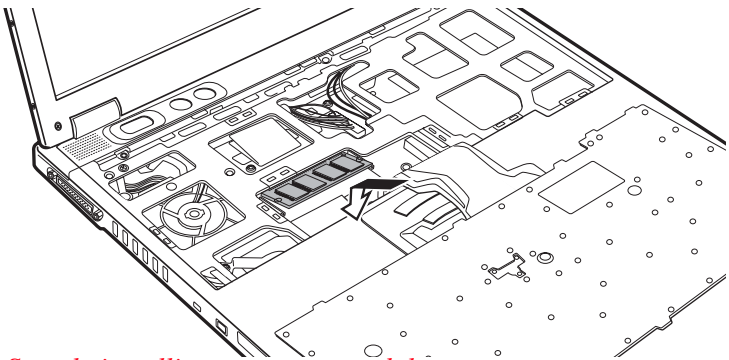


Sample removing the metal brace

12 Remove the new memory module from its antistatic packaging.

13 Holding the memory module by its edges so that the gold connector bar faces the slot, fit the module into the socket so it lies flat and is seated properly, secured by two latches on either side.

The clips on either side of the module click to secure the module.



Sample installing a memory module

14 Replace the metal brace and the screw.

15 Insert the tabs on the front of the keyboard into corresponding notches on the computer, seat the keyboard, and secure it with the two screws.

16 Seat the keyboard brace and press to secure latches.

17 Install the battery pack.

18 Turn the computer over and restart it.

When you turn on the computer, it automatically recognizes the additional memory.

Hard Drive Recovery Utilities

Your computer has been configured with a hard disk partition to allow you to recover your hard disk drive or reinstall selected applications and software features or utilities.

Back up your data externally before performing any of the tasks in this section.

NOTE It is strongly recommended that you create recovery CDs/DVDs before using your system. For more information on creating Recovery media, see "Creating Recovery CDs/DVDs" on page 76.

Using the HDD Recovery, you can:

- Create Hard Drive Recovery CDs or DVDs using a writable drive.
- Recover your hard disk drive to the factory-set default.
- Recover just your C: drive, leaving any other partitions you may have created intact, for example, a D: drive.
- Recover your hard disk drive to the factory-set default state without the HDD Recovery partition.

- Delete your hard disk drive recovery partition without the risk of losing your data.
- Reinstall drivers and applications which were bundled with your computer.

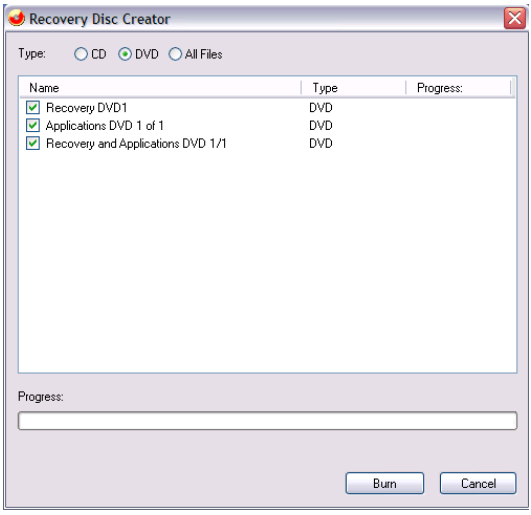
Creating Recovery CDs/DVDs

Depending on your system configuration, you may be able to copy the Hard Drive Recovery Utilities to CD or DVD. This gives you the ability to recover your hard disk drive and reclaim additional hard disk space used to store the Hard Drive Recovery Utilities on your computer.

NOTE The system prompts you to insert the appropriate number of CDs or DVDs to copy the Hard Drive Recovery Utilities. If your optical disk drive is not writable, contact TOSHIBA Customer Support to obtain the Recovery media for your system.

To create recovery CDs/DVDs:

1. Double-click the Recovery Disc Creator icon on the Windows desktop. You can also launch the application by clicking **Start**, **All Programs**, then **Hard Disk Recovery Utilities**.
2. Select CD, DVD, or All Files (to create Recovery media on both CDs and DVDs).



Sample Recovery Disc Creator screen

3. Select the items you want to copy by clicking the checkbox next to the item's Name – recovery files, applications (original bundled drivers and applications), or both the recovery files and applications.
4. Click **Burn**.
5. Insert the first blank CD or DVD into your computer's CD/DVD writable drive when prompted.
6. Follow the on-screen prompts to complete the copy process.

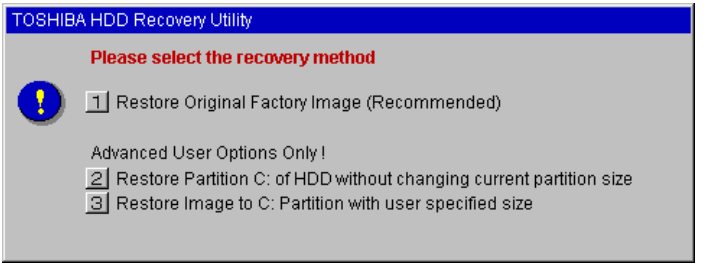
For more information on using the Recovery media you have created with the preceding steps, see "Hard Disk Drive Recovery using the Recovery media" on page 81.

Hard Disk Drive Recovery using the recovery partition

You have the options of recovering your system using the Hard Drive Recovery partition to the factory-set default, or recovering just your C: drive and leaving other partitions (for example, a D: drive) intact, or changing the size of your C: drive and then recovering it.

To recover your hard disk drive using the utilities stored on your computer's HDD:

1. Make sure the computer is turned off.
2. Press and hold the **0** (zero) key on your keyboard while powering on the computer. When the computer powers on, the TOSHIBA HDD Recovery Utility screen displays.


TOSHIBA HDD Recovery Utility
Please select the recovery method
1 Restore Original Factory Image (Recommended)
Advanced User Options Only !
2 Restore Partition C: of HDD without changing current partition size
3 Restore Image to C: Partition with user specified size

Sample TOSHIBA HDD Recovery Utility screen

Recovering the original factory image (recommended)

CAUTION Recovering a hard disk drive to its factory default setting deletes all partitions on the hard disk drive and your information will be lost. Be sure to save your work on external media before proceeding.

1. Press **1** on the keyboard to recover your hard disk drive to its original factory setting. A confirmation message displays

reminding you that all data will be lost during the recovery process. Be sure you have saved your work on external media before proceeding.

2 Click **Yes** to begin the recovery. Once complete, a message displays that the HDD has been recovered.

3 Press any key on the keyboard to restart the computer.

Recovering the C: partition of the HDD without changing the current partition size

CAUTION Recovering the C: drive to its factory default setting reformats your drive and your information on the recovered drive will be lost. Be sure to save your work on external media before proceeding. If you have created other partitions (for example, a D: drive), those partitions and any information on them will not be affected and will remain intact.

To recover only your C: drive:

1 Press **2** on the keyboard when the TOSHIBA HDD Recovery Utility screen displays. A confirmation message appears, reminding you that all information on the C: drive will be lost during the recovery process. Be sure you have saved your work on external media work before proceeding.

2 Click **Yes** to begin the restoration. Once complete, a message displays that the HDD has been recovered.

3 Press any key on your keyboard to restart the computer.

Recovering the C: partition with a user specified size

CAUTION Resizing and recovering your C: drive to its factory default setting reformats all partitions on the HDD (for example, if you created a D: drive, it will be deleted during the recovery process) and your information will be lost. Be sure to save your work on external media before proceeding.

To resize and recover your C: drive:

1. Press **3** on the keyboard when the TOSHIBA HDD Recovery Utility screen displays. A confirmation message appears, reminding you that all partitions will be reformatted and all information will be lost during the recovery process. Be sure you have saved your work on external media before proceeding.
2. Click **Yes** to begin the restoration and to specify the size of the C: drive.
   - Press the Left/Right Arrow keys to increase/decrease the C: drive size by 1 GB.
   - Press the Up/Down Arrow keys to increase/decrease the C: drive size by 5 GB.

NOTE The size of the C: drive displays on the progress bar as you make your selections.

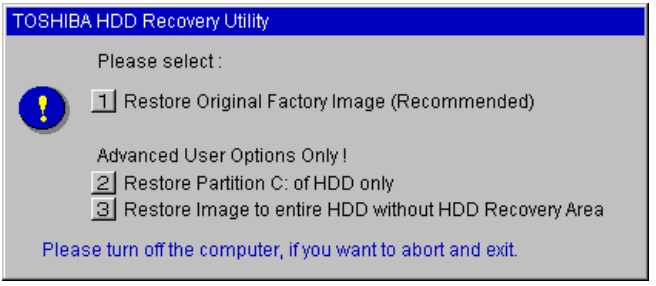
3. Click **Enter** to begin the restoration. Once complete, a message displays that the HDD has been recovered.
4. Press any key on your keyboard to restart the computer.

Hard Disk Drive Recovery using the Recovery media

If you need to recover your computer to its default factory state, you can re-build the system using your Hard Drive Recovery Utilities.

To recover your hard disk drive using the utilities burned to CDs or DVDs (refer to "Creating Recovery CDs/DVDs" on page 76):

- Insert the first recovery CD or DVD into your CD/DVD drive and power on the computer. When the computer powers on, the TOSHIBA HDD Recovery Utility screen displays.


TOSHIBA HDD Recovery Utility
Please select :
1 Restore Original Factory Image (Recommended)
Advanced User Options Only !
2 Restore Partition C: of HDD only
3 Restore Image to entire HDD without HDD Recovery Area
Please turn off the computer, if you want to abort and exit.

Sample TOSHIBA HDD Recovery Utility screen

Recovering the original factory image (recommended)

CAUTION Recovering a hard disk drive to its factory default setting deletes all partitions on the hard disk drive and your information will be lost. Be sure to save your work on external media before proceeding.

1. Press **1** on the keyboard to recover your hard disk drive to its original factory setting. A confirmation message displays, reminding you that all data will be lost during the recovery

process. Be sure you have saved your work on external media before proceeding.

2 Click **Yes** to begin the recovery process. Once complete, a message displays that the HDD has been recovered.

3 Press any key on the keyboard to restart the computer.

Recovering the C: partition of the HDD only

CAUTION Recovering the C: drive to its factory default setting reformats your drive and your information on the recovered drive will be lost. Be sure to save your work on external media before proceeding. If you have created other partitions (for example, a D: drive), those partitions and any information on them will not be affected and will remain intact.

To recover only your C: drive:

1 Press **2** on the keyboard when the TOSHIBA HDD Recovery Utility screen displays. A confirmation message appears, reminding you that all information on the C: drive will be lost during the recovery process. Be sure you have saved your work on external media before proceeding.

2 Click **Yes** to begin the restoration. Once complete, a message displays that the HDD has been recovered.

3 Press any key on your keyboard to restart the computer.

Recovering the entire HDD without the HDD Recovery Area

This option recovers your C: drive without creating the HDD Recovery Utilities partition. This will increase the size of your C: drive.

CAUTION Recovering your C: drive to its factory default state without the recovery partition reformats all partitions on the HDD (for example, if you created a D: drive, it will be deleted during the recovery process), and your information will be lost. Be sure to save your work on external media before proceeding.

To recover your C: drive without the recovery partition:

1. Press **3** on the keyboard when the TOSHIBA HDD Recovery Utility screen displays. A confirmation message appears, reminding you that all partitions will be reformatted and all data will be lost during the recovery process. Be sure you have saved your work on external media before proceeding.
2. Click **Yes** to begin the restoration. Once complete, a message displays that the HDD has been recovered.
3. Press any key on your keyboard to restart the computer.

Checking the HDD operating status

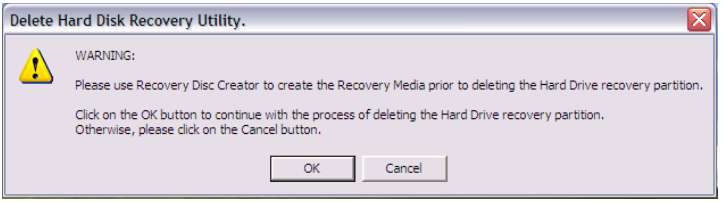
After restoring your hard disk drive, you can check its status as follows:

1. Click **Start**, and then click **Control Panel**.
2. Double-click the **Administrative Tools** icon.
3. Double-click the **Computer Management** icon.
4. Click **Disk Management**.
5. Highlight the hard disk drive in the Volume list to display its status in the lower portion of the screen.

Deleting the Hard Disk Recovery Utility

You can delete the HDD recovery partition without losing your data.

1. Click **Start**, **All Programs**, **Hard Disk Recovery Utilities**, then **Delete Hard Disk Recovery Partition**. The Delete Hard Disk Recovery Utility warning screen displays.


Delete Hard Disk Recovery Utility.
WARNING:
Please use Recovery Disc Creator to create the Recovery Media prior to deleting the Hard Drive recovery partition.
Click on the OK button to continue with the process of deleting the Hard Drive recovery partition.
Otherwise, please click on the Cancel button.
OK
Cancel

Sample Delete Hard Disk Recovery Utility screen

2. Click **OK** to continue.
3. When the following warning screen displays, click **OK** to confirm.

After the Delete Hard Disk Recovery Utility has completed, it assigns the appropriate drive letter (for example, E: drive) for the extra space and formats the drive.

Sample Delete Hard Disk Recovery Utility confirmation screen

Installing drivers and applications

The TOSHIBA Application Installer allows you to reinstall the drivers and applications that were originally bundled with your computer.

To reinstall drivers and applications:

1. Double-click the Toshiba Application Installer icon on the Windows desktop. You can also launch the application by clicking **Start**, **All Programs**, **Hard Disk Recovery Utilities**, and then **Toshiba Application Installer**.
2. Click **Next**.
3. Click the item(s) you want to install.
4. Click **Install**.
5. Follow the on-screen prompts to complete the installation process.

Using Slim SelectBay® modules

The Slim SelectBay® gives you additional flexibility. By inserting and removing Slim SelectBay modules, you can configure your computer for the task at hand without having to carry unnecessary components with you when you travel. For example, any one of several modules can be used in the Slim SelectBay:

- DVD-ROM drive
- Multi-function drive
- Weight saver insert (a “honeycomb” piece of plastic) that reinforces the Slim SelectBay for travel
- Secondary battery

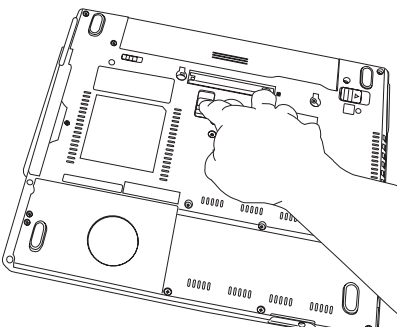
- Secondary hard disk drive (HDD)

HINT: Items from this list that did not come with your computer can be purchased separately. See the accessories information packaged with your system or visit accessories.toshiba.com.

Removing a module from the Slim SelectBay®

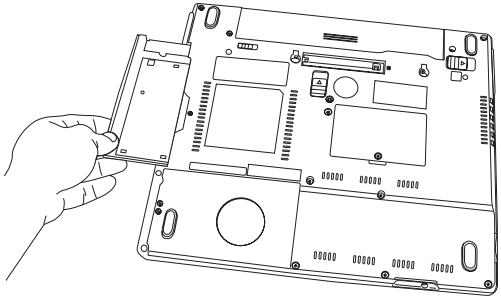
NOTE Use caution when lifting or turning your computer. Failure to do so may result in damage to components, such as cables, attached to your computer, or to the computer itself.

1. Do one of the following:
   - Turn off the computer.
   - Leave the computer on and hot swap the module. First, stop the module by clicking the **Safely Remove Hardware** icon on the System tray. After the module is stopped, it is safe to remove it.
2. Slide the Slim SelectBay release toward the back of the computer.



Sample unlatching the Slim SelectBay

3 Slide the Slim SelectBay out of the computer.



Sample sliding out the module

If you are removing the weight saver, retain it for transporting the computer when no other module is installed in the Slim SelectBay.

Inserting a module into the Slim SelectBay®

To install a module into the Slim SelectBay, simply slide the module all the way into the Slim SelectBay until the latch locks into place.

Inserting and removing hard drives

Your computer can use hard drives with various capacities. Depending upon the original hard drive installed in your computer, you may wish to increase storage capacity by changing the internal drive, or you can add additional hard drive space by inserting a drive into the Slim SelectBay module.

To change the internal hard drive.

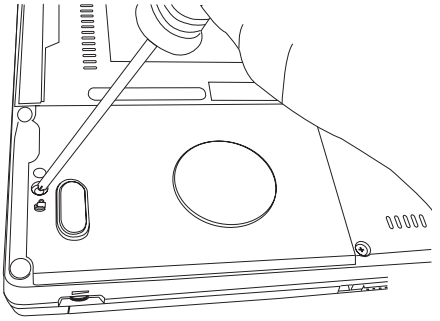
1 Shut down your computer completely using the Shut down or Turn Off command. See "Turning off the computer" on page 58.

2 Unplug the computer. See "Changing the main battery" on page 142.

3 Close the display panel and remove any cables that may be connected.

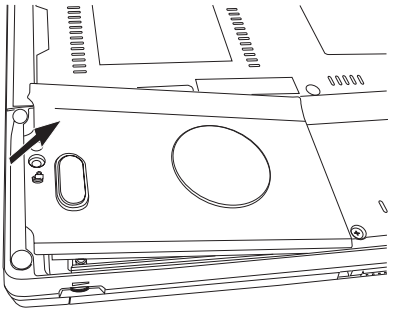
4 Turn the computer upside down and remove the battery.

5 Remove the screw on the hard drive bay cover.



Sample removing the hard drive bay cover screw

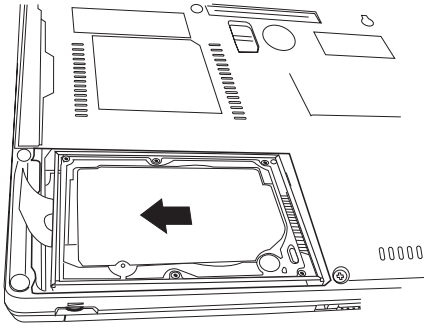
6 Remove the hard drive bay cover.



Sample removing the hard drive bay cover

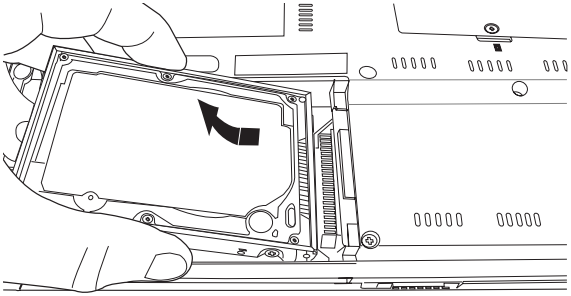
7 Lift the hard drive bay cover to expose the hard drive.

8 Release the hard drive from the hard drive connector by grasping the plastic tab on the exposed edge of the hard drive sliding it to the left side of the computer until it is fully disconnected.



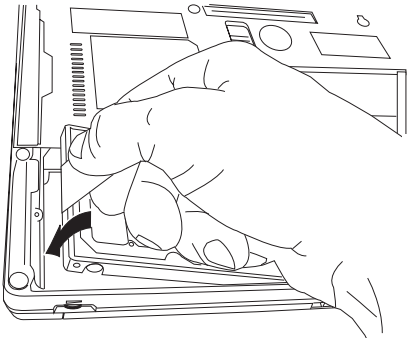
Sample sliding the hard drive away from the connector

9 Lift the hard drive out of the hard drive bay.



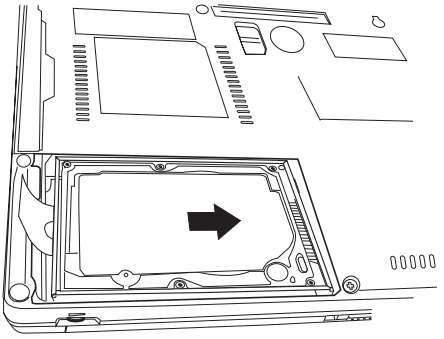
Sample lifting the hard drive out of the hard drive bay

10 Install the new hard drive by placing the drive into the hard drive bay.



Sample placing the hard drive into the hard drive bay

11 Slide the hard drive into the hard drive connector.



Sample sliding the hard drive into the hard drive connector

12 Press the drive firmly into the connector. Do not force the drive into the computer.

13 Replace the hard drive bay cover and tighten the screw removed in step 5.

Inserting and removing PC Cards

Your computer comes with one PC Card slot and supports two types of PC Cards:

- Type I cards—You can install one of these cards.
- Type II cards—You can install one of these cards.

TECHNICAL NOTE: For PCMCIA-compatible PC Cards, check the package to make sure they conform to the PCMCIA 2.1 standard (or later). Other cards may work with your computer, but are likely to be much more difficult to set up and use.

Setting up a PC Card for your computer

Some PC Cards are ready to use as soon as you install them. Others, such as hard disk cards, network cards, and SCSI adapters, may need to be set up to work with your computer. To set up your PC Card, refer to the documentation that came with the card or refer to your operating system manual or online help.

Inserting a PC Card

CAUTION You can only use PC Cards in the bottom slot or ExpressCards in the top slot. You cannot insert a PC Card into the ExpressCard slot (the upper slot), nor can you insert an ExpressCard into the PC card slot (the lower slot).

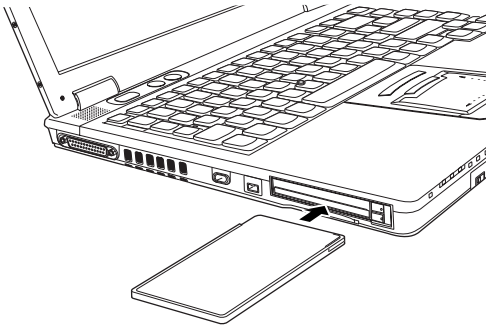
Before you insert a PC Card, refer to the documentation that comes with the card to see if you need to do anything before you insert it.

There are three different ways to insert a PC Card:

- Turn off the computer and follow the steps below.

- ❖ Insert the PC card while the computer is running. See "Hot swapping" on page 93 for more information.

1. Locate the PC Card slot on the left side of the computer.
2. Insert the PC Card in the lower slot.

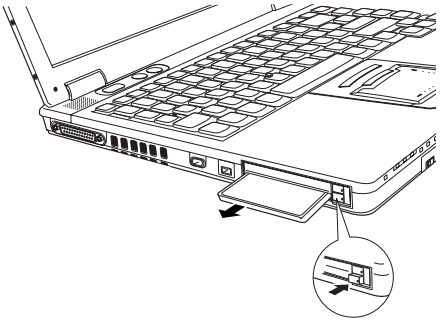


Sample inserting a PC Card

3. When the card is almost all the way into the slot, push firmly, but gently, to ensure a firm connection with the computer. Do not force the card into position.

Removing a PC Card

1. If the computer is on, stop the PC Card by clicking the **Safely Remove Hardware** icon on the System tray. After the PC Card stops, it is safe to remove it.
2. Locate the PC Card eject button next to the PC Card slot.
3. Press the PC Card eject button once to extend it, and push the button in to remove the PC Card.



Sample pressing the PC card eject button

The PC Card ejects slightly from the slot.

4 Grasp the edges of the PC Card and slide it out of the slot.

Hot swapping

With PC Cards, you can replace one PC Card with another while the computer is on. This is called “hot swapping.”

Hot swapping precautions

Although you can insert a PC Card at any time, remember not to remove a card while it is in use. Otherwise, you could lose valuable information.

For example:

- Do not remove a hard disk card while the system is accessing it.
- Do not remove a network card while you are connected to a network.
- Do not remove a SCSI card while any of the SCSI devices connected to it are operating.

Before removing a PC Card, stop it by clicking the **Safely Remove Hardware** icon on the System tray. After the PC Card is stopped, it is safe to remove.

Inserting an ExpressCard™

Before you insert an ExpressCard, refer to the documentation that comes with the card to see if you need to do anything before you insert it.

CAUTION You can only use PC Cards in the bottom slot or ExpressCards in the top slot. You cannot insert a PC Card into the ExpressCard slot (the upper slot), nor can you insert an ExpressCard into the PC card slot (the lower slot).

To insert an ExpressCard:

1. Turn off the computer.

   You may also hot swap an ExpressCard. Stop the ExpressCard by clicking the **Safely Remove Hardware** icon on the System tray. After the ExpressCard is stopped, it is safe to remove.

2. Locate the ExpressCard slot just above the PC Card slot on the left side of the computer.
3. Insert the PCI ExpressCard.
4. When the card is almost all the way into the slot, push firmly, but gently, to ensure a firm connection with the computer. Do not force the card into position.

Removing an ExpressCard™

Stop the ExpressCard by clicking the **Safely Remove Hardware** icon on the System tray. After the ExpressCard is stopped, it is safe to remove. Press the card until it pops out, and then remove it.

Inserting an SD® card

Important: Do not use the **Copy Disk** function for SD cards. In order to copy data from one SD card to another, use the following procedure:

1. Format the target SD card in the same format as the source SD card.
2. Insert the source SD card.
3. Create a temporary folder on the hard disk drive.
4. Copy the contents of the source SD card into the temporary folder you created in step 3.
5. Remove the source SD card.
6. Insert the target SD card created in step 1.
7. Copy the file contents from the temporary folder to the target SD card.
8. Eject the target SD card.

NOTE MMC cards (multimedia cards) do not work in this slot.

Locate the SD card slot on the left side of the computer.

To insert an SD card:

1. Turn the card so that the connector (metal area) faces down, then push the card into the slot until it locks in place.

   If Windows® does not recognize an inserted SD® card, remove it, verify that the card is facing the right way, and insert it again.

   The SD light on the front of the computer glows green when the card is being accessed.

To remove an SD card:

1 Press the card inward to release it and the card will pop out slightly.

CAUTION Do not touch the SD connector. You could expose the storage area to static electricity which can destroy data.

Do not remove an SD card while data is being written to or read. Even when the message "copying..." in the windows disappears, the computer may be writing to the card and your data could be destroyed. Wait for the SD indicator light to go out.

Connecting your modem to a telephone line

Your computer comes with a built-in modem that can be connected to a standard voice-grade telephone line.

Use the modem to:

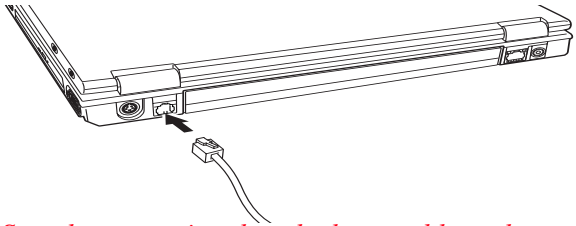
- Access the Internet.
- Communicate with your office's local area network (LAN) or a larger corporate wide area network (WAN).

  For specific information about connecting to a LAN or WAN, consult your network administrator.
- Send a fax directly from your computer.

Connecting to a phone line

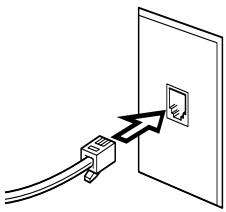
Before you can communicate using the modem, you need to connect it to a telephone line. Your computer's built-in modem port uses an RJ-11 jack to connect the modem to a standard voice-grade telephone line.

1 Plug one end of the telephone cable (purchased separately) into the modem port on the back of the computer.



Sample connecting the telephone cable to the modem port

2 Connect the other end to the RJ-11 wall jack.



Sample connecting to a wall jack

CAUTION The modem is designed for use with a standard analog telephone line. Do not connect the modem to a digital telephone line. A digital line will damage the modem.

Now you are ready to send a fax or use the modem to connect to an online service or the Internet.

For more information on using a modem, see "Setting up for communications" on page 159.

Using the i.LINK® port

The i.LINK® port on the left side of the computer provides an extremely fast data transfer rate (up to 400 mega bits per second [Mbps]). You can connect up to 63 external devices to the i.LINK® port.

In addition to high speed, the i.LINK® port also supports isochronous data—the delivery of data at a guaranteed rate. This makes it ideal for devices that transfer high levels of data in real-time, such as video devices.

As with USB ports, the i.LINK® port supports both Plug-and-Play (automatic configuration) and hot swapping (the ability to connect and disconnect devices while the computer is on).

Chapter 3

Learning the Basics

This chapter covers the basics of using your computer.

Computing tips

- Save your work frequently.

  Your work stays in the computer's temporary memory until you save it to the disk. You will lose all the work since your last save if, for example, the network you are using goes down and you must restart your computer to reconnect, or your battery runs out of charge while you are working.

HINT: Some programs have an automatic-save feature that you can activate. This feature saves your file to the hard disk at preset intervals. See your software documentation for details.

- Back up your files to disks (or other removable media) on a regular basis. Label the backup copies clearly and store them in a safe place.

  If your hard disk suddenly fails, you may lose all the data on it unless you have a separate backup copy.

- Use Error-checking and Disk Defragmenter regularly to conserve disk space and improve performance. Consult your operating system documentation for more information on these and other utilities.
- Scan all new files for viruses. This precaution is especially important for files you receive via diskette, email, or download from the Internet.
- Take frequent breaks to avoid repetitive-motion injuries and eyestrain.
- Do not turn off the computer if a drive indicator light indicates a drive is active.

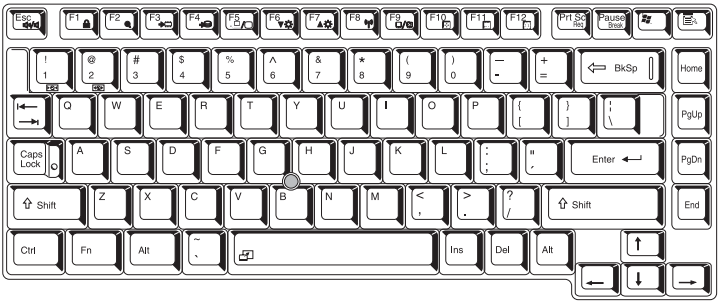
  Turning off the computer while it is reading from or writing to a disk may damage the disk, the drive, or both.

- Before turning off the computer, use the Turn off computer command or Stand By command. See "Powering down the computer" on page 124 to learn more about Stand By.

CAUTION The operating system records information, such as your desktop setup, during its shut down procedure. If you do not let the operating system shut down normally, details such as new icon positions may be lost.

Using the keyboard

Your computer's keyboard contains character keys, control keys, function keys, and special Windows® keys, providing all the functionality of a full-size keyboard.



Sample keyboard

Character keys

Typing with the character keys is very much like typing on a typewriter, except that:

- The space bar creates a space character instead of just passing over an area of the page.
- The lowercase letter l (el) and the number 1 are not interchangeable.
- The uppercase letter O and the number 0 are not interchangeable.

Making your keyboard emulate a full-size keyboard

Although your computer's keyboard layout is compatible with a standard full-size keyboard, it has fewer keys.

A standard full-size keyboard has two Enter, Ctrl, and Alt keys, editing keys, cursor positioning keys, and a numeric keypad. Pressing the Fn key simultaneously in combination with one of the specially marked keys allows you to emulate a full-size keyboard.

Your computer's keyboard has only one Enter and one Ctrl key. Most of the time this does not matter. However, some programs assign separate functions to the right and left Ctrl and Alt keys, or to the regular and numeric pad Enter keys on the full-sized keyboard. Using the Fn key you can simulate these separate keys, as follows:

- Press Fn and Ctrl simultaneously to simulate the Ctrl key on the right side of the enhanced keyboard.
- Press Fn and Enter simultaneously to simulate the Enter key on the numeric pad of the enhanced keyboard.

Ctrl, Fn, and Alt keys

Sample Ctrl, Fn, and Alt keys

The Ctrl, Fn, and Alt keys do different things depending on the program you are using. For more information, see your program documentation.

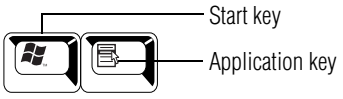
Function keys

The function keys (not to be confused with the Fn key) are the 12 keys at the top of the keyboard.

Sample function keys

F1 through F12 are called function keys because they execute programmed functions when pressed. Used in combination with the Fn key, function keys marked with icons execute specific functions on the computer. For more information, see "Fn-esse" on page 169, or "Hot Keys" on page 235.

Windows® special keys



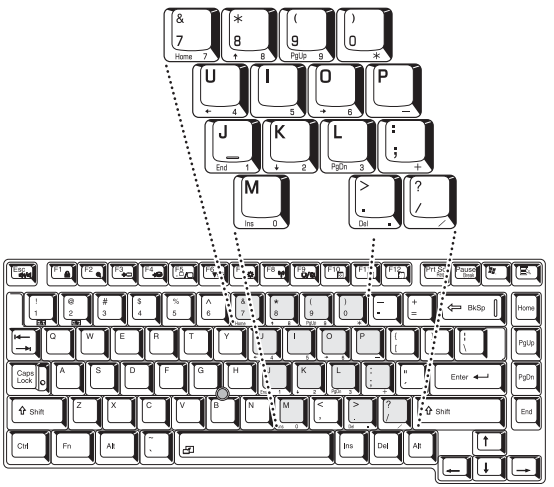
Sample Windows special keys

Your computer's keyboard has two keys that have special functions in Windows:

- **Start key**—Opens the Start menu
- **Application key**—Has the same function as the secondary mouse (or the Toshiba Dual Pointing Device) button

Overlay keys

The keys with gray numbers and symbols on the front of them form the numeric and cursor overlay. This overlay lets you enter numeric data or control the cursor as you would using the 10-key keypad on a desktop computer's keyboard.



Sample numeric and cursor control overlay

Using the overlay to type numeric data

The keys with the numbers on their right front are the numeric overlay keys.

To turn the numeric overlay on, press Fn and F11 simultaneously. The numeric mode light on the keyboard indicator panel glows when the numeric overlay is on.

You can still use the overlay keys to type alphabetic characters while the numeric overlay is on. To do so:

- For lowercase letters, hold down Fn while you type the letters.
- For uppercase letters, hold down both Fn and Shift while you type the letters.

To use the cursor control keys when the numeric overlay is on:

- Press and hold down Shift while you use the cursor control overlay keys.
- To return to the numeric overlay, release Shift.

To disable the numeric overlay, hold down the Fn key and press F11 again. The numeric mode light on the keyboard indicator panel goes out.

Using the overlay for cursor control

The keys with the gray arrows and symbols on their left front are the cursor control overlay keys.

To turn the cursor control overlay on, press Fn and F10 simultaneously. The cursor control mode light on the keyboard indicator panel glows when the cursor control overlay is on.

To type alphabetic characters while the overlay is on:

- For lowercase letters, hold down Fn while you type the letters.

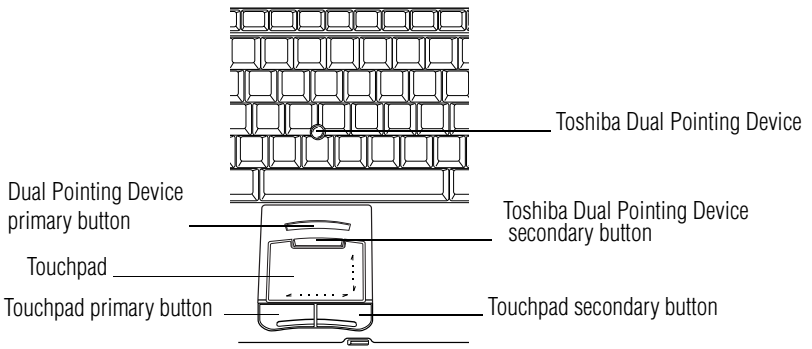
- For uppercase letters, hold down both Fn and Shift while you type the letters.

To use the numeric overlay keys while the cursor control overlay is on:

- Hold down Shift while you use the numeric overlay keys.
- To return to the cursor control overlay, release Shift.

To disable the cursor control overlay, hold down the Fn key and press F10 again. The cursor control mode light on the keyboard indicator panel goes out.

Using the Toshiba Dual Pointing Device



Sample Toshiba Dual Pointing Device buttons

Toshiba Dual Pointing Device—Moves the cursor and selects items on the screen.

To move the cursor, gently push the pointing device in the direction you want the cursor to move. Pushing harder on the pointing device moves the cursor faster.

Primary button—Performs the same function as the left button on a mouse.

When a step instructs you to click or choose an item, move the cursor to the item, then press and release the primary

button. To double-click, press the primary button twice in rapid succession.

Secondary button—Performs the same function as the right button on a mouse.

Using the TouchPad™

The TouchPad, the small, smooth square cutout located in front of the keyboard, is sensitive to touch. To move the cursor, simply move your finger on the TouchPad in the direction you would like to move the cursor:

- To move the cursor to the top of the page, push your finger forward on the TouchPad.
- To move the cursor to the bottom of the page, drag your finger toward yourself.
- To move the cursor to the right side of the page, slide your finger across the TouchPad from left to right.
- To move it to the left side, slide your finger from right to left.

NOTE Because the TouchPad is much smaller than the display screen, moving your cursor across the screen often means having to move your finger several times across the TouchPad in the desired direction.

Once you have positioned your cursor, you can either click it into place by double-tapping the TouchPad or clicking the control buttons.

Control buttons

When a step instructs you to click or choose an item, move the cursor to the item, then press and release the primary (left-hand) button. To double-click, press the primary button twice in rapid succession. The primary button usually corresponds to the left mouse button.

The function of the secondary (right-hand) button depends on the program you are using. It usually corresponds to the right mouse button. Check your program's documentation to find whether it uses the right mouse button.

Disabling or enabling the Dual Pointing Device

The Dual Pointing Device is enabled by default. To change the enable/disable Dual Point setting:

1. Click **Start**, **Control Panel**.

   The Control Panel window appears.

2. Click **Printers and Other Hardware**.
3. Click **Mouse Properties**.

   The Mouse Properties window appears.

4. Click the **Dual Pointing Device** tab.

   The Dual Pointing Device tab view window appears.

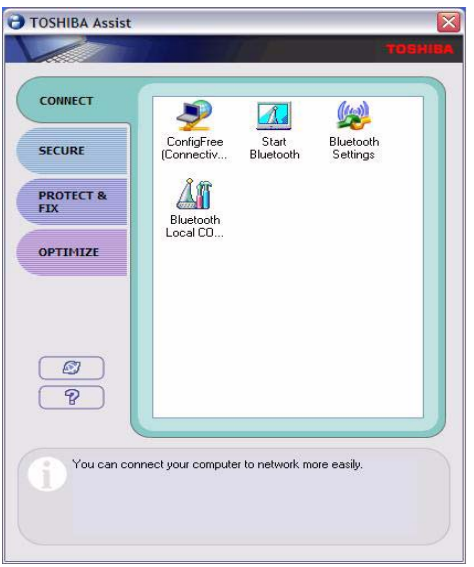
5. Select **Disable** or **Enable**, whichever is appropriate.
6. Click **Apply**.
7. Click **OK**.

   The Mouse Properties window closes.

8. Close the Printers and Other Hardware window.
9. Close the Control Panel window.

Using the Toshiba Assist button

The Toshiba Assist button, the left-hand button located above the keyboard near the left side speaker, activates the Toshiba Assist. This gives you quick access to some common functions. You can change the function of this button so that it performs other operations if you desire.



Sample TOSHIBA Assist screen

To reprogram the TOSHIBA Assist button:

1. Click **Start**, then **Control Panel**, then **Printers and Other Hardware**.
2. Select **Toshiba Controls**.

   This displays the **Toshiba Controls Properties** dialog box.
3. Select the box under the **TOSHIBA Assist** button section to bring up the available options.

   There are six options available when assigning a function to the TOSHIBA Assist button:

- TOSHIBA Assist
- Starts your Internet browser (Internet Explorer)
- Starts your email (Outlook Express)
- Directs the display to a TV through the S-video port
- Disables the button
- Starts a custom program

4 Select the option to which you wish to assign the TOSHIBA Assist button.

To assign a custom program, choose **Select your program** and enter the appropriate information for the program, or select **Browse** to find the program.

5 Click **OK** twice when finished.

Starting a program

The easiest way to start a program is to double-click the name of a file that is associated with the program you want to use. To find the file, use My Computer or Windows® Explorer.

If you prefer to open the program first, you can:

- Double-click the icon for the program on the desktop
- Use the Start menu
- Use Windows® Explorer or My Computer to locate the program file
- Use the Run dialog box

The next three sections explain how to start a program from the Start menu, Explorer and the Run dialog box.

Starting a program from the Start menu

When you install a program, the operating system usually puts an icon in the All Programs menu. To start a program that has an icon in the All Programs menu, follow these steps which use the Windows® Wordpad program as an example:

1. Click **Start**, then point to **All Programs**.

   The Windows® XP operating system displays the All Programs menu, which lists programs and program groups. If your program is listed go to step 3, otherwise, continue with step 2.

2. Point to the program group, in this example, **Accessories**.

   The Accessories menu is displayed.

3. Click the program, in this example, **Wordpad**.

   Wordpad opens.

To close the program, click the **Close** button in the upper-right corner of the program's window.

Starting a program from Windows® Explorer

If a program is not listed in the Programs menu, you can start it from Windows® Explorer. Windows® Explorer displays your computer's contents as a hierarchy or "tree." You can easily see the content of each drive and folder on your computer. To use this method, you should know the file name and location of the program's executable file (this file ends with .exe).

This example opens Wordpad using its file name, *wordpad.exe*.

1. Click **Start**, then point to **All Programs**.
2. Click **Accessories**.
3. Click **Windows Explorer**.
4. Double-click **My Computer**.

5 In the left part of the window, click the line that ends in "(C:)."

6 In the left part of the window, under the C: icon, double-click the folder containing the program, in this case **Program Files**.

7 In the left part of the window, click **Windows NT**.

8 Click **Accessories**.

Windows® Explorer shows the contents of the **Accessories** folder on the right side of the window.

9 In the right part of the window, double-click **Wordpad** or **wordpad.exe**.

The operating system opens Wordpad.

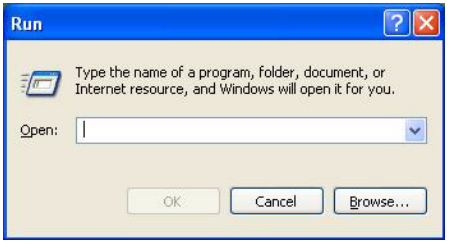
To close the program, click the **Close** button in the upper-right corner of the program's window.

Starting a program from the Run dialog box

This example uses the Run command to start Wordpad:

1 Click **Start**, then click **Run**.

The Run dialog box appears.



Sample Run dialog box

2 In the Run dialog box:

- For a program in the Windows® NT folder, type just the program name. If you know the program's location, type the full file path. Then click **OK**.
- If you do not know the program's location, you can search for it by clicking **Start**, and then **Search**. When the Search screen displays, follow the displayed instructions.

HINT: To run the same program again, click the arrow to the right of the text box and select the command line from the drop-down list.

Saving your work

Before you turn off the computer, save your work to the hard disk drive or a diskette. This is one of the most important aspects of computing.

CAUTION Always save your data even when you are using the Stand By command. If your battery fully discharges, your information will be lost. Your computer can be configured to warn you when the battery is running low, see "What to do when the battery alarm sounds" on page 141.

Saving documents is quick and easy, so it is a good idea to get in the habit of saving frequently.

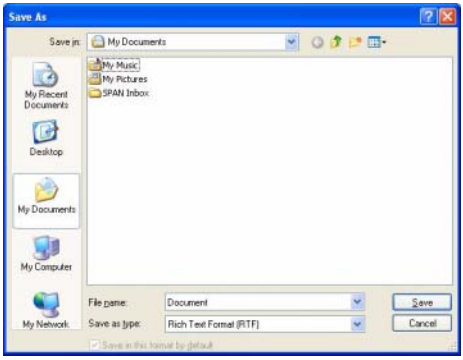
Many programs offer a feature that saves documents at regular intervals. Check your program's documentation to see if it has an automatic save feature.

Saving files

1 On the **File** menu of your Windows® program, click **Save**.

If you are working with a document that already has a file name, that is all there is to it. If you created a new document, your program displays a Save As dialog box.

Use this dialog box to specify where to store the document and to give it a file name.



Sample Save As dialog box

2 Choose the drive and folder where you want your file to be stored.

3 Type a file name, then click **Save**.

HINT: To make another copy of the file you are currently working with, choose Save As from the File menu and give the new file a different name.

The Windows® XP operating system supports file names of up to 255 characters; the names can include spaces. Some applications still require file names limited to eight characters.

File names

If you plan to share your files with a computer using a pre-Windows® 95 version of the Windows® operating system, the file name must be no more than eight characters long. Typically the file name also has an extension, consisting of a period and up to three additional characters.

You may use all the letters and numbers on the keyboard plus these characters: _,^,$,~,!,#,%,&,{,},(,),@ and ‘. MS-DOS® file names are not case-sensitive and must not contain spaces.

Using a file extension

Most programs assign an extension to the file name that identifies the file as being created in the program with a particular format. For example, Microsoft® Word saves files with a .doc extension. Any file name with an extension of “.doc” is assumed to be a Microsoft® Word file. Creating your own extension is usually unwise, since the program is unlikely to recognize a strange extension and may refuse to handle your file correctly.

Printing your work

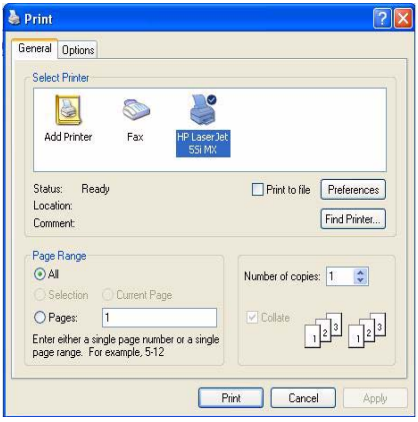
Ensure the operating system is set up for your printer as described in “Connecting a local printer” on page 66.

TECHNICAL NOTE: You only need to set up the printer the first time you connect it. If you use more than one printer or are changing printers, you need to set up the operating system to run with the additional printer(s).

To print a file:

1. If your printer is not on, turn it on now.
2. Open the **File** menu of your Windows® program and click **Print**.

The program displays a Print dialog box.



Sample Print dialog box

3 Specify the print parameters. For example, the range of pages and number of copies to print.

4 Click **Print**.

Using the DVD-ROM or multi-function drive

Optical storage has become the preferred medium for software, music, and video. Digital versatile discs (DVDs) provide a significant increase in data storage and support features that are not available on any other video platform. These features include wide-screen movies, multiple language tracks, digital surround sound, multiple camera angles, and interactive menus.

For these reasons, your computer may come with a DVD-ROM drive or multi-function drive.

If a DVD-ROM drive or multi-function drive is not currently installed in the Slim SelectBay, follow the instructions in "Using Slim SelectBay® modules" on page 85.

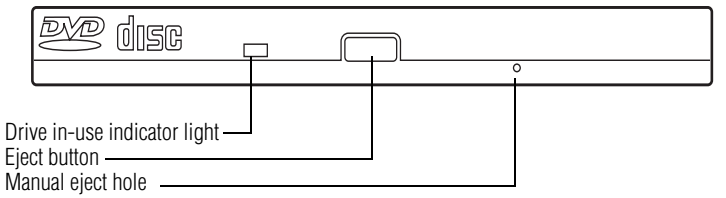
TECHNICAL NOTE: Your DVD-ROM or multi-function drive is set to play region 1 (North America) DVD-ROMs. If you play a DVD disc from another region, the drive automatically changes to play in the format of the other region. The drive allows you to change regions four times. On the fourth change, the region is "locked in." That is, the drive will only play DVDs from that last region. Note that changing from region 1 to region 2 and back to region 1 is counted as two changes.

NOTE For optimum CD and DVD performance, it is recommended that you play CDs and DVDs while running the computer on AC power.

You use CD-ROMs and DVD-ROMs to load and run software, and to access reference material such as catalogs, as well as listen to music. A special feature allows you to play audio CDs even when the computer is turned off.

DVD-ROM or multi-function drive components

Your DVD-ROM or multi-function drive may look like this:



Sample DVD-ROM drive

Drive in-use indicator light—Indicates when the CD-ROM or multi-function drive is in use.

Eject button—Releases the disc tray when the system is powered on.

CAUTION Do not press the eject button or turn off the computer while the Drive in-use indicator light is glowing. Doing so could damage the disc or the drive.

When the disc tray is open, be careful not to touch the lens or the area around it. Doing so could cause the drive to malfunction.

Manual eject hole—Releases the disc tray when the power is off. Use a straightened paper clip or other narrow object to press the manual eject button located inside the hole.

CAUTION Never use a pencil to press the manual eject button. Pencil lead can break off inside the computer and damage it.

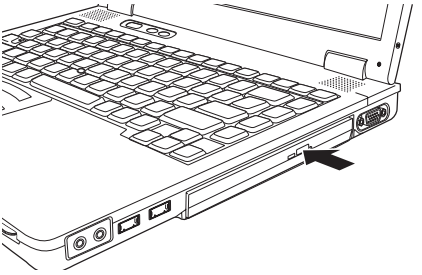
Inserting a compact disc

WARNING Before using headphones to listen to an audio CD, turn the volume dial down. Playing the CD with the volume set too high could damage your ears.

To insert a compact disc into the DVD-ROM or multi-function drive:

1. Make sure the computer is turned on.
2. Make sure the in-use indicator light is off.
3. Press the DVD-ROM or multi-function drive's eject button.

   The disc tray slides partially out of the drive (about 1 inch).

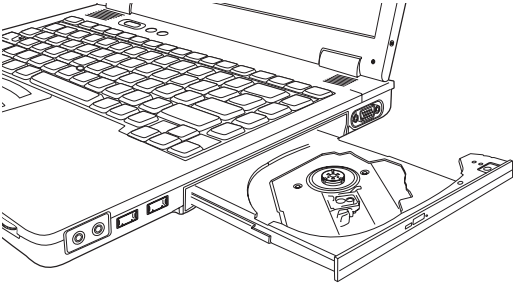


Sample pressing the eject button

CAUTION To avoid damaging a disc or losing data, check that the disc activity light is off before opening the disc tray.

HINT: The drive will not open if the computer's power is off.

4 Grasp the tray and pull it fully open.



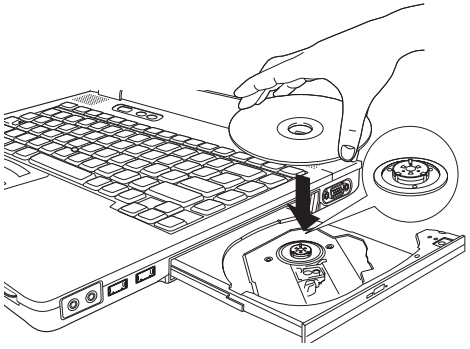
Sample of the fully extended drive tray

5 Hold the disc by its edges and check that it is clean and free of dust.

CAUTION Handle discs carefully. Avoid touching the surface of the disc. Grasp it by its center hole and edge. If you handle the disc incorrectly, you could lose data.

If the disc is dusty, clean it as described in "Caring for CDs and DVDs" on page 121.

6 Place the disc carefully in the disc tray, label side up.



Sample of positioning the disc in the drive

7 Gently press the disc onto the center spindle until you feel it click into place.

CAUTION Be careful not to touch the drive's lens (located underneath the drive's spindle) or the area around it. Doing so could cause the drive to malfunction.

8 Make sure the disc is completely on the spindle and is lying flat on the tray.

CAUTION If you insert the disc incorrectly, it may jam the drive. If this happens, contact Toshiba support for assistance.

9 Push the disc tray in by pressing gently on the center of the tray until it clicks into place.

You are ready to use the disc.

Removing a compact disc with the computer on

CAUTION Do not press the eject button while the in-use indicator light is glowing. Doing so could damage the disc or the drive.

To remove a compact disc (CD or DVD) with the computer turned on:

1 Press the Eject button on the drive.

CAUTION If the disc is still spinning when you open the disc tray, wait for it to stop spinning before you remove it.

2 Pull the tray until it is fully open, remove the disc, and place it in its protective cover.

3 Gently push the tray in to close it.

Removing a compact disc with the computer turned off

To remove a compact disc (CD or DVD) with the computer turned off:

1. Insert a slender object, such as a straightened paper clip, into the manual eject hole.

CAUTION Never use a pencil to press the manual eject button. Pencil lead can break off inside the computer and damage it.

2. Gently pull the tray out until it is fully open, remove the disc, and place it in its protective cover.
3. Gently push the tray in to close it.

Caring for CDs and DVDs

- Store your discs in their original containers to protect them from scratches and keep them clean.
- Do not bend a disc or place heavy objects on top of it.
- Do not apply a label to, or otherwise mar the surface of a disc.
- Hold a disc by its outside edge. Fingerprints on the surface can prevent the DVD-ROM or multi-function drive from reading the data properly.
- Do not expose discs to direct sunlight or extreme heat or cold.
- To clean a disc that is dirty, wipe it with a clean, dry cloth. The most efficient method to clean it is to start from the center of the disc and wipe toward the outward edge (not in a circle). If necessary, moisten the cloth with water or a neutral cleaner (not benzine or rubbing alcohol). Let the disc dry completely before inserting it in the drive.

Using your computer at the office

By connecting an external monitor, external full-size keyboard, and a mouse, you can work with your notebook as if it were a standard office computer.

An external monitor or projector connects to the RGB port.

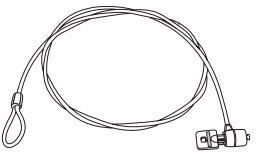
An external USB keyboard or a USB mouse connects to the USB port.

A serial mouse connects to the serial port of the optional Advanced Port Replicator III.

For more information on connecting these and other components, see "Connecting Other External Devices" on page 60.

Using a computer lock

For your own peace of mind, you may want to secure your computer to a heavy object such as your desk. The easiest way to do this is to purchase an optional PORT-Noteworthy® Computer Lock Cable.



Sample PORT-Noteworthy® Computer Lock Cable

To secure the computer:

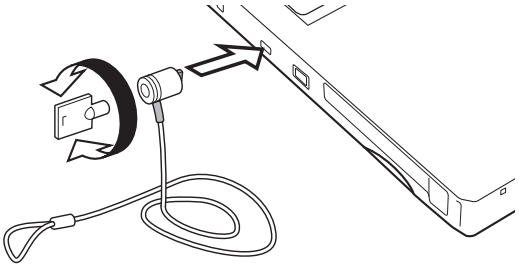
1. Loop the cable through or around some part of a heavy object.

   Make sure there is no way for a potential thief to slip the cable off the object.

2. Pass the locking end through the loop.
3. Slide the PC Card lock (located underneath the PC Card slots) to secure your PC Cards in place.

4 Insert the cable's locking end into the security lock slot on the computer, then give the key a quarter turn and remove it.

The computer is now securely locked.



Sample locking the computer

Caring for your computer

This section gives tips on cleaning and moving your computer. For information about taking care of your computer's battery, see "Running the computer on battery power" on page 134.

Cleaning the computer

CAUTION Keep liquids, including cleaning fluid, out of the computer's keyboard, speaker, and other openings. Never spray cleaner directly onto the computer. Never use harsh or caustic chemical products to clean the computer.

To keep your computer clean, gently wipe the display panel and exterior case with a lightly dampened cloth. Ask your Toshiba dealer for suggestions for appropriate cleaning products.

Moving the computer

Before moving your computer, even across the room, make sure all disk activity has ended (the drive indicator light stops glowing) and all external peripheral cables are disconnected.

CAUTION Do not pick up the computer by its display panel or by the back (where the ports are located).

Although your notebook computer is built to withstand reasonable shock and vibration, transport it in a carrying case for long trips. You can purchase a carrying case from your Toshiba dealer, through the accessories information packaged with your system, or visit accessories.toshiba.com.

Powering down the computer

NOTE Pushing the power button before shutting down the Windows® operating system could cause you to lose your work. Make sure the system indicator panel's disk light and the drive-in-use light are off. If you turn off the power while a disk is being accessed, you may lose data or damage the disk and/or drive.

When you power down the computer, you have three options to choose from: Turn Off Computer (or Shut down), Stand By, and Hibernation.

You can set the computer to turn on automatically at a time you designate. This option is helpful for transferring files by modem at night. You can set the computer to turn on and send or receive the files while you are asleep. This option is called Auto Power On.

TECHNICAL NOTE: Before using any of these options to power down your computer, save your files and make sure the disk activity lights are off.

If you change your mind and decide to continue working after all, wait a few seconds before turning the computer on again.

Using Turn Off or Shut down

The Turn Off or Shut down command shuts the computer down completely. Use the Turn Off command if you are using the Windows XP Professional operating system when not connected to a domain server.

Use the Shut down command if you are using the Windows XP Professional operating system and are connected to a domain server.

When you start up again, the computer runs a self-test and loads the operating system. You must open any programs and files you want to use.

Factors to consider when choosing Turn Off or Shut down:

- No power is used while the computer is shut down. This is the most efficient mode if you will be away from your computer for an extended time.
- Restarting from Turn Off or Shut down uses the most time and battery power.
- When starting up again, the system does not automatically open the programs and files you were using.

For the Windows XP Professional operating system, follow these steps to shut down the computer:

1. Click the **Start** button, and then **Shut down**.

   The Shut Down Windows dialog box appears.

2 Select **Shut down** from the drop-down list.

3 Click **OK**.

The computer shuts down completely.

NOTE Holding Shift while the Turn Off computer Windows dialog box is open, changes the Stand By button to Hibernate. For more information about setting up hibernation, see "Using Stand By" on page 130.

Shutting down more quickly

In addition to the above procedure, you can shut down the computer by either pressing the power button or closing the display panel.

To use either of these methods, you first need to turn it on in the TOSHIBA Power Management utility.

1 Click **Start**, **Control Panel**, and then **Performance and Maintenance**.

2 Double-click the **TOSHIBA Power Saver** icon.

3 Click the **Setup Action** tab.

4 Select the options you want from the drop-down lists.

- **When I press the power button**
  Set this option to **Shut Down** to have the computer shut down when you press the power button.
- **When I close the lid**
  Set this option to the action you want to occur when you close the LCD panel.

Sample Toshiba Power Saver Properties Dialog Box

5 Click **OK**, then close the Control Panel.

NOTE For more information about the Power Saver utility, see "TOSHIBA Power Saver" on page 176.

Starting again after Shut down

To start the computer up again, press the power button until the on/off light changes to green.

Using Hibernation

Hibernation mode shuts the computer down completely, but it first saves the current settings and configuration of the computer to the hard disk. Since Hibernation mode does not require power to maintain the saved information, the system settings are retained indefinitely. Restoring information from the hard disk takes longer than restoring it from memory. When you start up again, the computer runs a self-test, loads the operating system, and then returns to the mode in which you left it.

Factors to consider when choosing Hibernation:

- While in Hibernation mode, the computer uses no battery power.
- Because the mode of the system is held on the hard disk, no data is lost if the main battery discharges.
- When starting up again, Hibernation uses less time and battery power than does Turn Off.
- Resuming from Hibernation uses a little more time and power to start up than restarting from Stand By, because information is being retrieved from the hard disk rather than from memory.
- When starting up again, the computer returns to the mode in which you left it, including all open programs and files you were using.

NOTE If you place your computer into either Standby or Hibernation mode immediately after the system has resumed from either mode, the computer may not properly reenter the selected mode.

When resuming your computer from either Standby or Hibernation mode, make sure to wait until the system completes the process before placing the system back into either mode (approximately 1 minute). If the computer does not reenter into Standby or Hibernation mode properly, restart the computer.

Configuring your computer for Hibernation

1. Click **Start**, **Control Panel**, and then **Performance and Maintenance**.

2. In the Control Panel window, double-click the **TOSHIBA Power Saver** icon.
3. Click the **Setup Action** tab.

4 Select **Hibernation** for the options you want.

- **When I press the power button**
  Set this option to Hibernation so that the computer will go into Hibernation mode when you press the power button.
- **When I close the lid**
  Set this option to Hibernation so that the computer will go into Hibernation mode when you close the display panel.

5 Click **OK**.

6 Click **OK** again, then close the Control Panel.

The computer is now set to automatically go into Hibernation when your option settings occur.

NOTE For more information about the Power Saver utility, see "TOSHIBA Power Saver" on page 176.

Once the computer is configured, put the computer into Hibernation mode by either pressing the power button or closing the display panel, depending on the hibernation options taken.

Starting again from Hibernation mode

Use these instructions to restart the computer when you enter Hibernation mode by closing the display panel:

- When using AC power, open the display panel.
- When using battery power, open the display panel and press the power button until the on/off light changes to green.

The computer returns to the screen you were previously using.

Using Stand By

NOTE If you place your computer into either Standby or Hibernation mode immediately after the system has resumed from either mode, the computer may not properly reenter the selected mode.

When resuming your computer from either Standby or Hibernation mode, make sure to wait until the system completes the process before placing the system back into either mode (approximately 1 minute). If the computer does not reenter into Standby or Hibernation mode properly, restart the computer.

The Stand By command puts the computer into a power-saving mode. Stand By holds the current mode of the computer in memory so that, when you power on the computer, you can continue working from where you left off.

Factors to consider when choosing Stand By:

- While in Stand By mode, the computer uses some battery power.
- Restarting from Stand By uses less time and battery power than restarting from Turn Off Computer or Hibernation.
- When starting up again, the computer returns to the mode in which you left it, including all open programs and files you were using.

NOTE If you power down using the Stand By command and the main battery discharges fully, your information will be lost. Be sure to save your work first.

To power down the computer using the Stand By command, click **Start**, **Turn Off Computer**, and select **Stand By**.

Sample Turn Off Computer Windows dialog box

NOTE If you hold down Shift, Stand By becomes Hibernate in the Turn Off Computer dialog box. To enter hibernation mode, you must hold down Shift while you select Hibernate.

The computer saves the status of all open programs and files, turns off the display, and goes into a low-power mode. The on/off light blinks amber indicating the machine is in Stand By mode.

Going into Stand By mode more quickly

In addition, you can put the computer into Stand By mode by either pressing the power button or closing the display panel. You can also specify an amount of time after which the computer automatically goes into Stand By mode.

To use any of these methods, you first need to enable them in the TOSHIBA Power Saver utility.

1. Click **Start**, **Control Panel**, and then **Performance and Maintenance**.
2. In the Performance and Maintenance window, click the **TOSHIBA Power Saver** icon.
3. Click the **Action Setup** tab.
4. Select **Stand By** for the options you want.

- **When I press the power button**
  Set this option to Stand By to put the computer into Stand By mode when you press the power button.
- **When I close the lid**
  Set this option to Stand By to put the computer into Stand By mode when you close the display panel.

5 Click **OK**, then close the Control Panel.

NOTE For more information about the Power Saver utility, see "TOSHIBA Power Saver" on page 176.

Starting again from Stand By mode

Use these instructions to restart the computer when you enter Stand By mode by closing the display panel:

- When using AC power, open the display panel.
- When using battery power, open the display panel and press the power button until the on/off light changes to green.

The computer returns to the screen you were previously using.

Toshiba's online resources

Toshiba maintains a number of online sites to which you can connect. These sites provide information about Toshiba products, give help with technical questions and keep you up to date with future upgrades. For more information, see "Contacting Toshiba" on page 232.

Chapter 4

Mobile Computing

This chapter covers all the aspects of using your computer on battery power.

Toshiba's energy-saver design

Your computer enters a low-power, Stand By mode when it is not being used, thereby conserving energy and saving money in the process. It has a number of other features that enhance its energy efficiency.

Many of these energy-saving features have been set by Toshiba. We recommend you leave these features active, allowing your computer to operate at its maximum energy efficiency, so that you can use it for longer periods of time while traveling.

For more information on managing your power usage, see "TOSHIBA Power Saver" on page 176.

Running the computer on battery power

The computer contains a removable Lithium-Ion (Li-Ion) battery pack that provides power when you are away from an AC outlet. This is the main battery. You can recharge it many times.

Battery Notice

Battery life may vary, depending on applications, power management settings, and features utilized. Recharge time varies depending on usage. The battery may not charge while the computer is consuming full power.

After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see your accessories information that shipped with your computer, or to stay current on the most recent software and hardware options for your computer, and for other product information, regularly check the Toshiba Web site at accessories.toshiba.com.

To ensure that the battery maintains its maximum capacity, operate the computer on battery power at least once a month until the battery is fully discharged. Please see "Maximizing battery life" on page 145 for procedures. If the computer is continuously operated on AC power, either through an AC adapter or a docking station (if applicable to your system), for an extended period (more than a month), the battery may fail to retain a charge. This may shorten the life of the battery, and the battery light may not indicate a low-battery condition.

NOTE For optimum DVD performance, Toshiba recommends that you play DVDs while running on AC power rather than on battery power.

NOTE Over a period of time, and depending on the usage of the computer, the brightness of the LCD Screen will deteriorate. This is an intrinsic characteristic of LCD technology.

The screen will dim when the computer is operated on battery power and you may not be able to increase the brightness of the screen.

In addition to the main battery, you may also have a second battery installed in the Slim SelectBay. If you travel and need to work for many hours without an AC power source, you may purchase a battery module for use in the computer's Slim SelectBay, or carry additional charged battery packs with you.

The computer also has an internal real-time-clock (RTC) battery.

The RTC battery powers the RTC memory that stores your system configuration settings and the current time and date information. It maintains this information for up to a month while the computer is turned off.

TECHNICAL NOTE: The RTC battery does not charge while the computer is turned off, even when AC power is attached.

Charging the batteries

NOTE Battery charge time may vary depending on the applications, power management settings, and features used.

The battery needs to be charged before you can use it to power the computer.

CAUTION Never leave batteries in the battery charger for more than a week at a time. Doing so may reduce the potential charge of the battery.

Use only battery chargers designed to work with your notebook computer. You can order a Toshiba battery charger from Toshiba's Web site at accessories.toshiba.com.

Charging the main battery

To charge the main battery while it is in your computer, plug the computer into a live electrical outlet. The battery charges whether the computer is on or off.

TECHNICAL NOTE: When your computer is using all of the power provided by the AC Adapter to run applications, features, and devices, the recharging of the battery cannot occur. Your computer's Power Saver utility can be used to select a power level setting that reduces the power required for system operation and will allow the battery to recharge.

The main battery light (▭) glows amber while the battery is being charged, and glows green when it is fully charged.

The battery may not start charging immediately under the following conditions:

- The battery is extremely hot or cold.

  To ensure that the battery charges to its full capacity, wait until it reaches room temperature.

- The battery is almost completely discharged.

  Leave the power connected and the battery should begin charging after a few minutes.

Once the battery is fully charged, we recommend that you operate your computer on battery power until the battery discharges completely. Doing this extends battery life and helps ensure accurate monitoring of battery capacity.

Charging the RTC battery

Your computer has an internal real-time clock (RTC) battery. The RTC battery powers the System Time Clock and BIOS memory used to store your computer's configuration settings. When fully charged, it maintains this information for up to a month when the computer is powered off.

The RTC battery may have become completely discharged while your computer was shipped, resulting in the following error message during startup:

```
BAD RTC BATTERY
BAD CHECKSUM (CMOS)
CHECK SYSTEM
```

NOTE The above error message may vary by computer model.

The RTC battery does not charge while the computer is turned off even when the AC adapter is charging the computer.

If the RTC battery is low, the real-time clock and calendar may display the incorrect time and date, or stop working.

To recharge the RTC battery, plug the computer into a live electrical outlet and leave the computer powered on for 24 hours.

NOTE It is seldom necessary to charge the RTC battery because it charges while the computer is on. If the RTC battery is low, the real-time clock and calendar may display the incorrect time and date or stop working.

When Hibernation mode is enabled and the RTC battery is completely discharged, a warning prompts you to reset the real-time clock.

The computer can be used while the RTC battery is being charged, although the charging status of the RTC battery cannot be monitored.

Monitoring battery power

The computer's main battery light gives you an indication of the main battery's current charge:

- Green indicates the AC adapter has fully charged the battery.
- Amber indicates the AC adapter is charging the battery.
- Off indicates that the battery is not being charged.

NOTE Battery life and charge time may vary, depending upon power management settings, applications and features used.

- Flashing amber indicates that the computer is using battery power, and the battery's charge is running low.

HINT: Be careful not to confuse the battery light (▭) with the on/off light (⏻). When the on/off light flashes amber, it indicates that the system is suspended (using Windows XP Stand By command).

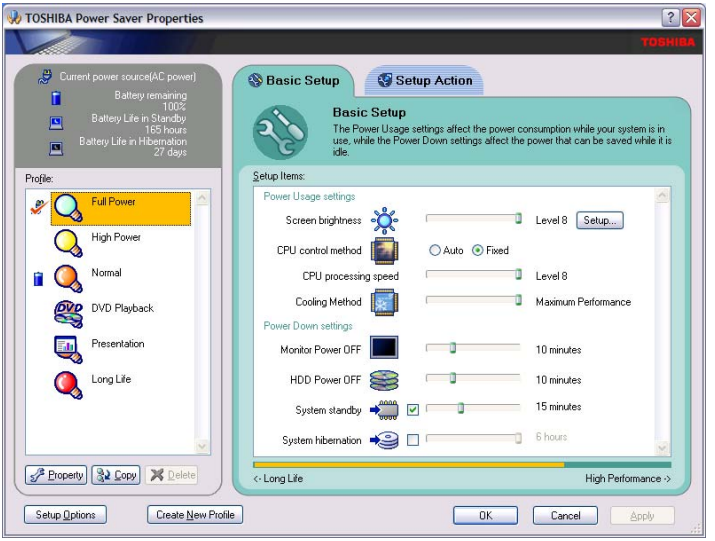
Determining remaining battery power

NOTE Wait at least 16 seconds after turning on the computer before trying to monitor the remaining battery power. The computer needs this time to check the battery's remaining capacity and perform its calculations.

1. Open the **Start** menu, click **Control Panel**, then **Performance and Maintenance**.

2. Click the **Toshiba Power Saver** icon.

   The current power source and battery power remaining section displays the current charge state of the battery. The value displays as a percentage of remaining battery charge.



Sample Toshiba Power Saver Properties Dialog Box

The remaining battery charge is indicated on the left side of the dialog box.

With repeated discharges and recharges, the battery's capacity gradually decreases. A frequently used older battery does not power the computer for as long as a new battery, even when both are fully charged.

TECHNICAL NOTE: The computer drains the battery faster at low temperatures. Check your remaining charge frequently if you are working in temperatures below 50 degrees Fahrenheit.

The computer calculates the remaining battery charge based on your current rate of power use and other factors such as the age of the battery.

What to do when the battery runs low

When the battery runs low you can:

- Plug the computer into an external power source and recharge the battery.
- Put the computer in Hibernate mode and replace the battery with a charged spare.
- Save your work and turn off the computer.

If you do not set any of these options before the battery completely runs out of power, the computer automatically enters Hibernation mode and turns itself off. Hibernation mode keeps track of where you were so, when you turn on the power again, you can continue where you left off.

The computer stores the information on what you were doing until the battery runs out of power. If you have Hibernation mode enabled (the default), the computer copies the details of your open programs and files to the hard disk before shutting down.

What to do when the battery alarm sounds

Your computer can be configured to warn you of a low battery charge condition so that you can take the necessary steps to save your work.

Your Windows operating system offers two alarms before your system shuts down.

To change the default alarm settings:

1. Click **Start**, then **Control Panel**, and then **Performance and Maintenance**.
2. Click the **TOSHIBA Power Saver** icon.
3. Click the **Setup Action** tab.
4. Configure the **Alarm settings** to suit your needs.

Before your computer runs out of battery power, save your data and take one of the following actions:

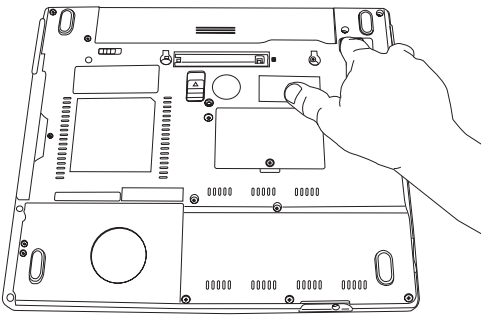
- Suspend or shut down your computer.
- Shut down your computer and replace the main battery with a charged one.
- Install a secondary battery module in the computer's Slim SelectBay.
- Connect your computer to an AC power source.

Changing the main battery

CAUTION When handling battery packs, do not drop or knock them. Also, be careful not to damage the casing or short-circuit the terminals.

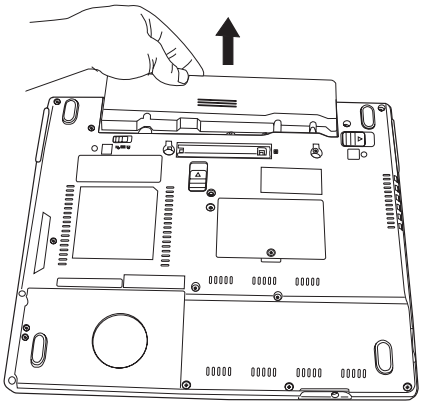
To change the battery:

1. Save your work.
2. Shut down and turn off the computer.
3. Remove all cables connected to the computer.
4. Turn the computer over.
5. If the battery lock is in the locked position (toward the center of the computer), slide it towards the edge of the computer to unlock it.
6. Slide the battery release latch to release the battery.



Sample battery release latch

7 Pull the discharged battery module out of the computer.



Sample removing the discharged battery

WARNING If the battery is leaking or its case is cracked, put on protective gloves to handle it, and discard it immediately following the advice in "Disposing of used batteries safely" on page 146.

8 Insert the charged battery into the slot until the latch clicks.

The battery pack has been designed so that you cannot install it with reverse polarity.

CAUTION If the battery does not slide into the slot easily, move the battery release lock to the unlocked position and try again. Do not force the battery into position.

9 Reset the battery lock to the locked position.

10 Turn the computer right side up.

11 Reconnect any cables.

12 Restart the computer.

Taking care of your battery

The following sections offer tips on how to take care of your battery and prolong its life.

Safety precautions

- If the battery pack produces an odor, overheats or changes color or shape while it is being used or charged, turn off the computer's power immediately and disconnect the power cord/cable from the power socket. Carefully remove the battery pack from the computer.
- Do not try to disassemble a battery pack.
- Do not overcharge or reverse charge a battery. Overcharging will shorten its life, and reverse charging could damage it.
- Avoid touching the metal terminals of the battery with another metal object. Short-circuiting the battery can cause it to overheat and may cause damage to the battery or the computer.
- Do not incinerate a spent battery, as this could cause it to explode and release toxic materials.

- If a battery is leaking or damaged, replace it immediately. Use protective gloves when handling a damaged battery.
- To replace the main battery, use an identical battery that you can purchase through the Toshiba Web site at accessories.toshiba.com.
- A reverse polarity condition should be avoided with all batteries. The main battery is designed so that it cannot be installed in reverse polarity.
- Charge the battery only in the computer or in a battery charger designated as an approved option.
- When you install the battery pack, you should hear a click when it is seated properly.
- Do not expose the battery pack to fire. The battery pack could explode.

Maximizing battery life

To maximize the life of your battery pack:

- Disconnect it from the computer power source at least once a month and operate it on battery power until the battery pack fully discharges. Before doing so, follow the steps below:

  1. Turn off the computer's power.
  2. Disconnect the AC adapter and turn on the computer's power. If it does not turn on, go to step 4.
  3. Operate the computer on battery power for five minutes. If the battery pack has at least five minutes of operating time, continue operating until the battery pack is fully discharged. If the battery light flashes or there is some other warning to indicate a low battery, go to step 4.
  4. Connect the AC adapter to the computer and the power cord to a power outlet. The DC-IN or AC power-light light should glow green, and the battery light should glow amber to indicate that the battery

pack is being charged. If the DC-IN or AC power-light indicator does not glow, power is not being supplied. Check the connections for the AC adapter and power cord.

5. Charge the battery pack until the battery light glows green.

- If you have extra battery packs, rotate their use.
- If you will not be using the system for an extended period, more than one month, remove the battery pack.
- Disconnect the AC adapter when the battery is fully charged. Overcharging makes the battery hot and shortens life.
- If you are not going to use the computer for more than eight hours, disconnect the AC adapter.
- Store spare battery packs in a cool dry place out of direct sunlight.

Disposing of used batteries safely

The life of a battery pack should last for years, depending on use. When the battery pack needs replacing, the main battery light flashes amber shortly after you have fully recharged the battery.

You must discard a battery if it becomes damaged.

WARNING The computer's main battery is a Lithium-Ion (Li-Ion) battery, which can explode if not properly replaced, used, handled, or disposed of. Putting spent batteries in the trash is not only irresponsible, it may be illegal. Dispose of the battery as required by local ordinances or regulations.

Use only batteries recommended by Toshiba.

After repeated use, the batteries will finally lose their ability to hold a charge and you will need to replace them. Under federal, state and local laws, it may be illegal to dispose of old batteries by placing them in the trash.

Please be kind to our shared environment. Check with your local government authority for details regarding where to recycle old batteries or how to dispose of them properly. If you cannot find the information you need elsewhere, call Toshiba at: (800) 457-7777.

Conserving power

How long a fully charged battery pack lasts when you are using the computer depends on a number of factors, including:

- How the computer is configured.
- How much you use the hard disk, DVD-ROM/CD-ROM, and diskette drives, or other optional devices.
- Where you are working, since operating time decreases at low temperatures.

There are various ways in which you can conserve power and extend the operating time of your battery:

- Enable Stand By or Hibernation, which saves power when you turn off the computer and turn it back on again.
- Use Toshiba's power-saving options.

These power-saving options control the way in which the computer is configured. By using them, you can greatly increase the length of time you can use the computer before you need to recharge the battery.

Toshiba has combined these options into preset power usage modes or profiles. Using one of these modes lets you choose between maximum power savings and peak system performance. You may also set individual power-saving options to suit your own needs.

The following sections describe how to choose a power usage mode and discuss each power-saving option.

Power profiles in Windows XP

In Windows XP Professional, you can choose from predefined power usage profile or select your own combination of power management options. To do this:

1. Click **Start**, then **Control Panel**. Click the **TOSHIBA Power Saver** icon.
2. Select the appropriate profile and set your options.
3. For more information, see "TOSHIBA Power Saver" on page 176.

Using a hot key to set the power usage mode

You may use a hot key to set the power usage profile.

To set the power usage profile:

1. Press Fn and F2 simultaneously to display the power usage pop-up window.

Sample Power usage profile pop-up window

2. While continuing to press Fn, press F2 until you select the desired power usage profile.

   The power usage profile for battery power are: Long Life, Normal, High Power, DVD-Playback, and Presentation.

   The default power usage profile under AC power is Full Power.

3 Release the Fn key.

The pop-up window disappears. You are now using the selected profile.

For more information on setting the battery power usage profile, see "TOSHIBA Power Saver" on page 176.

Additional options for power

Depending on the amount of time you spend away from external power sources, the capacity of one battery pack may be sufficient for your needs. However, if you need more portable power, Toshiba provides these options:

- Purchase extra battery packs.
- Install a secondary battery module in the Slim SelectBay. See "Using Slim SelectBay® modules" on page 85.
- Purchase a battery charger that charges one main battery pack and one secondary battery module at a time.

Chapter 5

Exploring Your Options

In this chapter, you will explore some of the special features of your notebook computer.

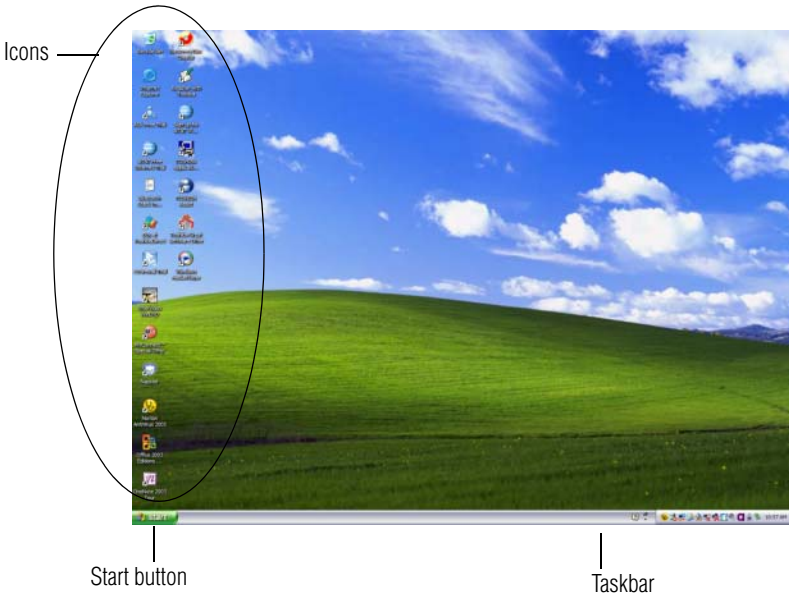
Exploring the desktop

The desktop is the launching pad for everything you can do in the Windows® XP Professional operating system. You use its features to start programs, find documents, set up system components, and perform most other computing tasks.

HINT: The illustrated examples in this guide may appear slightly different from the screens displayed by your system. The differences are not significant and do not indicate any change in the functionality of your system.

Finding your way around the desktop

Common desktop features include icons, the Start button, and the taskbar.



Sample Windows® XP operating system desktop

Icons

An icon represents a file or program that can be quickly activated by double-clicking the icon. The icons initially displayed on your Windows® XP operating system desktop include:

Recycle Bin—Holds files you have deleted. You may be able to retrieve these files until you empty the Recycle Bin.

TECHNICAL NOTE: If you delete a file from a diskette, it does not go into the Recycle Bin. For more information on the Recycle Bin, see Windows® Help.

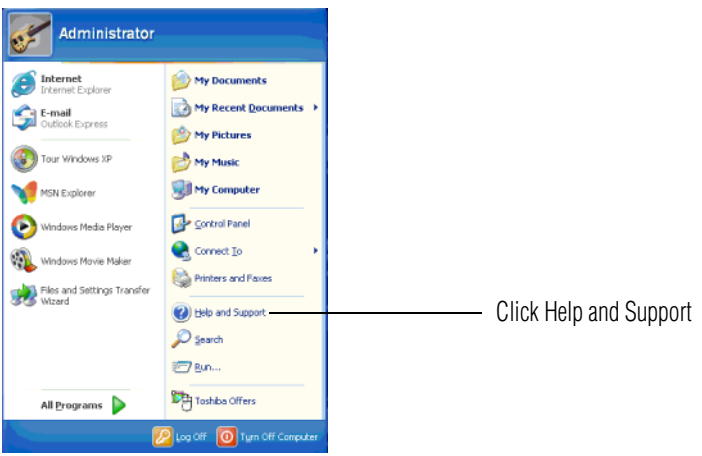
Internet Explorer—The Microsoft® Web browser that provides access to the Internet.

Your desktop may contain other icons depending on your configuration. See the Toshiba Help and Support Center for more specific information on each icon and how to use it.

Start button

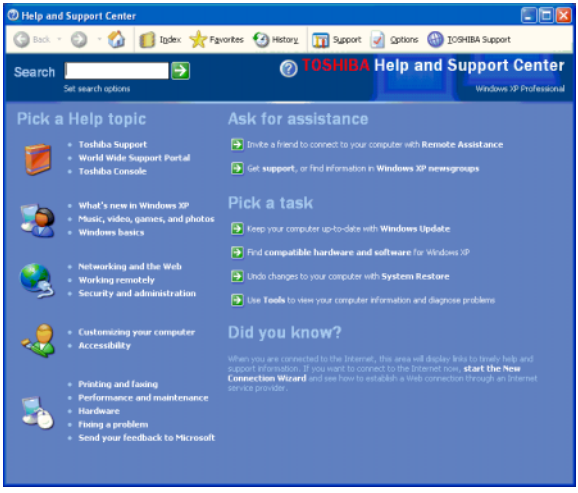
You use the Start button to:

- Start programs
- Access Microsoft® Windows® XP operating system update information
- Open documents
- Adjust system settings
- Find files
- Access Windows® Help and Support
- Run programs
- Suspend system activity and shut down the computer



Sample Windows XP Start menu

For answers to common questions, click **Start**, then click **Help and Support** to open the Toshiba Help and Support Center.


Help and Support Center
Index
Favorites
History
Support
Options
TOSHIBA Support
Search
Set search options
TOSHIBA Help and Support Center
Windows XP Professional
Pick a Help topic
Toshiba Support
World Wide Support Portal
Toshiba Console
What's new in Windows XP
Music, video, games, and photos
Windows basics
Networking and the Web
Working remotely
Security and administration
Customizing your computer
Accessibility
Printing and faxing
Performance and maintenance
Hardware
Fixing a problem
Send your feedback to Microsoft
Ask for assistance
Invite a friend to connect to your computer with Remote Assistance
Get support, or find information in Windows XP newsgroups
Pick a task
Keep your computer up-to-date with Windows Update
Find compatible hardware and software for Windows XP
Undo changes to your computer with System Restore
Use Tools to view your computer information and diagnose problems
Did you know?
When you are connected to the Internet, this area will display links to timely help and support information. If you want to connect to the Internet now, start the New Connection Wizard and see how to establish a Web connection through an Internet service provider.

Sample Toshiba Help and Support Center screen

Click an item or use the Search box to locate a specific topic.

Quick Launch toolbar

The Quick Launch toolbar displays icons of tasks or programs, similar to desktop icons. You can access these icons quickly and conveniently at any time as they are not covered by the windows of other executing programs.

Before you may add icons to the Quick Launch toolbar you must activate it.

Right-click on the Taskbar. On the **Toolbars** submenu, select Quick Launch.

To add an icon to the Quick Launch toolbar, click the icon and drag it to the Quick Launch toolbar.

To activate a specific program, click the appropriate Quick Launch toolbar icon.

Taskbar

Each time you open a program, a button associated with that program appears on the taskbar. With some programs, a button appears on the taskbar for each document or window you open. You can use these buttons to quickly switch between the programs or windows.

To make a program or window the currently active one, click the associated taskbar button.

DEFINITION: URL stands for Uniform Resource Locator, which is the address that defines the route to a file on the Web or any other Internet facility. Generically, it is known as the Web site address.

System tray

The System tray displays icons of tasks or programs that run continuously in the background. To learn more about each task, position the cursor over the icon for a few moments and a short description of the task appears.

Typical tasks in the System tray are Current time, Power usage mode, Mouse properties, and speaker volume.

To activate a specific task, double-click the appropriate System tray icon. You may also right-click the icon to see other options.

Exploring audio features

You can play .wav sound files or audio CDs using the built-in speakers, headphones, or external speakers. You can use your computer to record sounds using the built-in microphone or an external microphone.

Using external speakers or headphones

Your computer is equipped with a full stereo sound system with internal speakers. Instead of using the internal speakers, you can connect headphones or a pair of external stereo speakers.

WARNING Before using headphones to listen to an audio CD, turn the volume dial down. Playing the CD with the volume set too high could damage your ears.

TECHNICAL NOTE: Use amplified speakers that require an external power source. Other types of speakers will be inadequate to produce sound from the computer.

To play back sound files through headphones or external speakers:

1. Locate the headphone jack on the computer.
2. Using any necessary adapters, plug the cable from the headphones or external speakers into the headphone jack.

   The headphone jack requires a 16-ohm stereo mini jack.

To adjust the volume:

- For external speakers, use the volume controls located on the speaker(s).
- For headphones, use the computer's volume control dial located on the front of the computer.

Recording sounds

You may record sounds and save them as .wav files using the built-in microphone or an external microphone. The easiest way to record is through the computer's built-in microphone.

DEFINITION: A .wav (pronounced "wave") file is the format for storing sound in files in Windows.

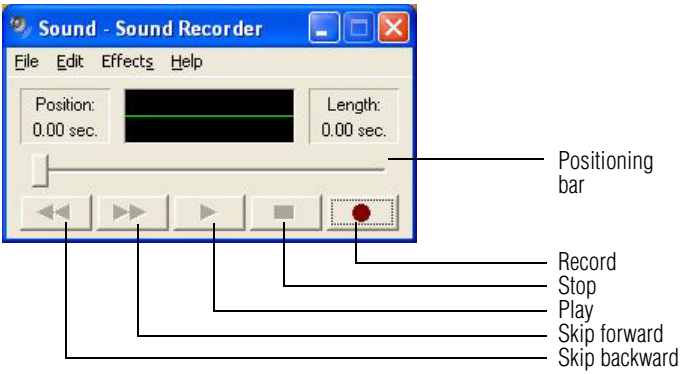
TECHNICAL NOTE: If you record MP3 files, you can only play them on a device capable of playing MP3 files.

Using a microphone

To record sounds using the microphone:

1. If you want to use an external microphone, connect it to the external microphone jack located on the right side of the computer.
2. Click **Start**, point to **Programs**, **Accessories**, and then click **Entertainment**.
3. Click **Sound Recorder**.

The Sound Recorder screen displays.



Sample Sound Recorder screen

4 Click the **Record** button.

5 Speak normally into the microphone.

NOTE The maximum recording time is 60 seconds.

6 When you have finished recording, click the **Stop** button.

7 To hear what you just recorded, click the **Play** button.

8 To save the file, select **Save** from the **File** menu.

NOTE The microphone on your computer might be set to Mute. To check this, click Start, point to All Programs, Accessories, Entertainment, and then click Volume Control.

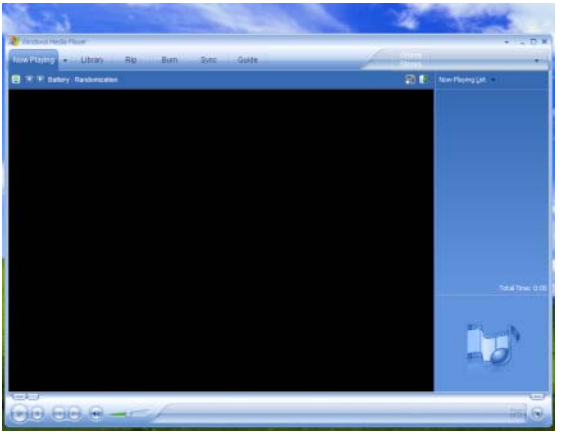
Playing an audio CD-ROM

WARNING Before using headphones to listen to an audio CD, turn the volume dial down. Playing the CD with the volume set too high could damage your ears.

Insert an audio CD and close the disc tray. The CD begins to play.

If the computer is turned on, Windows Media® Player opens and the CD begins to play. You can use the Windows Media Player program to control the CD.

To access the Windows Media Player, you can open it through the Start menu or activate it from the taskbar.



Sample Windows Media Player screen

The CD Player control panel works much like an ordinary compact disc player:

- To play the CD or to pause, click the **Play/pause** button on the CD Player control panel.
- To stop the CD, click the **Stop** button.

Exchanging data with another computer

To transfer a large amount of information between computers you can use the Windows® XP Briefcase or a specialized synchronization program (not shipped with your system) and the computer's parallel port.

Getting help transferring files

To find detailed steps on how to transfer files:

1. Click **Start**, then **Help and Support**.
2. Click the **Index** icon on the toolbar.
3. In the dialog box, type direct cable connection.
4. Follow the online guide instructions.

Setting up for communications

In order to connect to the Internet, use an online service, or communicate across the telephone lines with another computer, you may need:

- A modem (one comes with your computer)
- A telephone line
- A browser or communications program
- An Internet Service Provider (ISP) or online service if you plan to use the Internet

Determining the COM port

Your modem is connected to one of the computer's COM (communications) ports. The default setting for the modem is COM3.

The following procedure is intended to support you if you need to either upgrade your modem or reset the port to the default settings.

If you are having trouble connecting through the modem, you may need to determine the current COM port name and possibly change it.

To find out which port your modem is connected to:

1. Click **Start**, then **Control Panel**.

   Windows XP opens the Control Panel.

2. Double-click **Phone and Modem Options**.

   Windows XP displays the **Phone and Modem Options Properties** dialog box.

3. Click the **Modems** tab.

   Your modem should be listed next to one of the computer's COM ports.

4. Make a note of the COM port number.

5. To verify that the modem is set up properly, select the modem you wish to check and then click **Properties** to bring up the dialog box with information specific to that modem.

6. Click the **Diagnostics** tab, and then click **Query Modem**.

   Windows XP communicates with the modem and displays identifying information reported by the modem. If Windows XP cannot communicate with the modem, it displays an error message. Consult the troubleshooting sections of your modem and Windows XP documentation.

7. Click **OK** to close the properties dialog box for that specific modem.

8. Click **OK** to close the Modem Properties dialog box.

9. Close the Control Panel.

Connecting the modem to a telephone line

Before you can use the modem, you must connect it to a standard voice-grade telephone line. For more information, see "Connecting to a phone line" on page 97.

Connecting your computer to a network

You can connect your computer to a network to increase its capabilities and functionality using one of its communication ports.

Accessing a network

To access a network:

- At the office, connect an Ethernet cable to the RJ-45 jack on your computer. For specific information about connecting to the network, consult your network administrator.
- While you are at home or traveling, you need a dial-up connection. Ask your network administrator for the telephone number of the network.
- Wirelessly, you need an optional wireless networking PC Card or an optional Wi-Fi® module. For more information about wireless networking, refer to your wireless network device documentation or contact your authorized Toshiba service provider.

Setting up the connection

To set up an office connection, consult your network administrator for network settings and additional considerations.

To set up a dial-up connection, use the New Connection Wizard:

1. Click **Start** and point to **All Programs**.

2. Point to **Accessories**, then to **Communications**, and click **New Connection Wizard**.
3. Enter the phone number of your network connection and let the program dial the number.

   The computer connects to the network.

Using the Ethernet LAN Port

When your computer starts, Windows attempts to contact a Dynamic Host Configuration Protocol (DHCP) server. If the computer is not connected to a network, it may pause a few minutes as it waits for a reply. To avoid this delay, you can reconfigure Windows to disable the LAN port.

To disable the LAN port:

1. Click **Start**, then **Control Panel**.
2. Double-click the **System** icon, click the **Hardware** tab, and then click the **Device Manager** button.
3. Select the appropriate network adapter.
4. Click the **Properties** icon on the toolbar.
5. Select the **Do not use this device (disable)** option from the **Device usage** drop-down.
6. Click **OK**.

   Your LAN port is now disabled.

To enable the Ethernet LAN port, repeat steps one through four. Select the **Use this device (enable)** check box, and click **OK**.

Setting up a wireless connection

For information on how to set up a wireless connection, refer to the online help that came with your operating system or your network administrator.

Using Wireless LAN Connectivity

NOTE The transmission speed over the wireless LAN and the distance over which wireless LAN can reach may vary depending on surrounding electromagnetic environment, obstacles, access point design and configuration, and client design and software/hardware configurations.

Your system may come with an optional wireless LAN module. This is a technology that expands wireless communication beyond networking equipment, and can connect many different kinds of electronic devices without the need for cables.

For information on how to set up a wireless connection, refer to your wireless networking device documentation or your network administrator.

To use your wireless communication, slide the wireless antenna on/off switch to the On position.

Using the optional Bluetooth™ module

Bluetooth™ is a technology that expands wireless communication beyond networking equipment, and can connect many different kinds of electronic devices without the need for cables.

To use Bluetooth for your wireless communication, follow these steps:

1. Move the wireless antenna on/off switch to the On position.

   The antenna is enabled.

2. While holding down the Function Key (Fn), press F8 until the Bluetooth icon is highlighted.

3. Release the keys.

   Bluetooth is now enabled.

An overview of using the Internet

The following sections give a quick introduction to the Internet and some of its exciting features, such as:

- The Internet
- The World Wide Web
- Internet Service Providers
- Connecting to the Internet
- Surfing the Internet
- Internet features
- Uploading and downloading files from the Internet

The Internet

The Internet is an association of thousands of networks and millions of computers around the world connected by communications lines. They all work together to share information.

The World Wide Web

The World Wide Web (or "Web") is a subset of the Internet—a collection of interlinked documents (located on computers connected to the Internet) that work together using a specific Internet protocol called Hypertext Transfer Protocol (HTTP).

The World Wide Web offers information as text, images, audio, or video to be referenced from anywhere in the world. Special programs called Web browsers are specifically designed to work with HTTP. They make it easier to connect to a particular network address and send and receive information.

Internet Service Providers

To connect a computer directly to the Internet, many people and businesses use an Internet Service Provider (ISP). An ISP is a company that has the equipment and the telecommunication lines necessary to maintain an Internet connection.

You can connect to the Internet by using a telephone and modem or through other higher-speed communication methods such as Digital Subscriber Lines (DSL), cable, and satellite links.

Connecting to the Internet

To connect to the Internet, you may need:

- A modem
- A Web browser
- A telephone line
- An Internet Service Provider (ISP) account

The Microsoft® Web browser Internet Explorer is automatically configured on your system so that when you first start it, it guides you through signing up for a new ISP account, or assists you in setting up your computer to work with your existing ISP.

Once you have established an ISP account, you can connect to the Internet.

1. Connect your computer's modem to a telephone line. For more information on connecting a modem, see "Connecting to a phone line" on page 97.

2. Start your Web browser. Have your modem dial the ISP's telephone number, and establish a connection with the ISP's computer.

If you are using your computer at the office, then you probably connect to the Internet through your company's

network. See your network administrator about connecting to the Internet.

Surfing the Internet

Once connected to the Internet, the Web browser displays a home page, for example, your ISP's home page on the Internet or your company's Web site home page.

To visit a desired Web site, type in the Web address. The Web address, or Uniform Resource Locator (URL), is a unique identifier for that computer system linked to the Internet. Web addresses can also appear within a Web page's text, and are known as links. Clicking a link automatically transfers your Web browser to that site.

You can also use a Search Engine, a Web site specifically designed to help you look for information.

Internet features

The Internet offers many types of communication tools to help you perform many tasks.

- Internet email

  To send and receive email of your own, you need a mailbox on the Web, or an email address.

  If you have an account with an ISP, you can probably set up an email address at the same time you sign up for the service.

- Internet chat rooms

  A chat room is a Web site that offers a place where people with similar interests and ideas communicate in real-time, one-on-one or in groups, by typing messages which are instantly viewed by others on their computer screens.

- Internet news groups

  A newsgroup is similar to a chat room, but instead of using a dedicated site to converse about a specialized subject with others in real-time, it uses a Web site as a clearinghouse where all the messages are placed, like a gigantic bulletin board.

- Online shopping

  Many Web sites offer products and services for sale.

Uploading and downloading files from the Internet

Transferring files from one computer to another is termed uploading (transferring data from your computer to a site on the Web), or downloading (transferring data from a site on the Web to your computer).

There are several ways to upload or download data. It can be as simple as attaching a file or document to an email, or you can use the File Transfer Protocol (FTP) features of your Web browser to transfer large amounts of data.

Chapter 6

Toshiba Utilities

Your notebook computer includes several utilities designed to help you reconfigure your system and best meet your individual needs. Together, these allow you to ascertain certain system details, set additional options, and change default values. The Toshiba utilities are:

- Fn-esse
- TOSHIBA HW Setup
- TOSHIBA Power Saver
- TOSHIBA Mobile Extension
- TOSHIBA Password Utility
- TOSHIBA Zooming Utility
- TOSHIBA CD/DVD Drive Acoustic Silencer
- TOSHIBA SD Memory Boot Utility
- PC Diagnostic Tool
- TOSHIBA Mic Effect
- TOSHIBA Application Installer

Each of these utilities is described in this chapter.

Fn-esse

Desktop shortcuts and Toshiba's Fn-esse program provide quick ways to open programs, documents, and folders from within any Windows® program without using the Start menu. For more information on creating desktop shortcuts, refer to the operating system documentation that came with your computer.

This section describes how to use the Fn-esse program to quickly access your programs and files.

With Fn-esse, you can assign an Fn key combination to:

- Open a Windows® XP operating system program.
- Open a file in its associated program.
- Display a customized folder of programs and/or files from which to choose.

Fn-esse also has several keys that perform preassigned operations, known as hot keys. For more information, see "Hot Keys" on page 235.

You can assign any key that is not associated with a hot key or a keyboard overlay.

Starting Fn-esse

1. Click **Start**, point to **All Programs**, **Toshiba**, **Utilities**, then click **Fn-esse**.

   The Fn-esse keyboard appears.

Sample Fn-esse screen

The keys are color-coded as follows:

- Available keys are dark gray with white letters
- Assigned keys and keys associated with a popup list are shown on the Fn-esse keyboard in the selected color
- Unavailable keys are light gray

There are two ways to assign a key to open a program or document:

- Using drag-and-drop
- Using the keyboard or pointing device

Using drag-and-drop to assign a key

To assign a key to a program or document:

1. Start both Fn-esse and Windows® Explorer (or the program supporting drag-and-drop).
2. Resize the Explorer window so that you can see both the Fn-esse keyboard and Explorer at the same time.
3. In the Explorer window, highlight the program or document file you wish to assign to a key.
4. Click and hold the primary button as you drag the highlighted item from Explorer to the key on the Fn-esse keyboard to which you want to assign it.
5. Release the primary button.

Fn-esse displays the Add/Edit Command dialog box with the Description, Command Line and Working Directory fields automatically completed.

6 Click **OK** to close the Add/Edit Command dialog box with your key assignment in place.

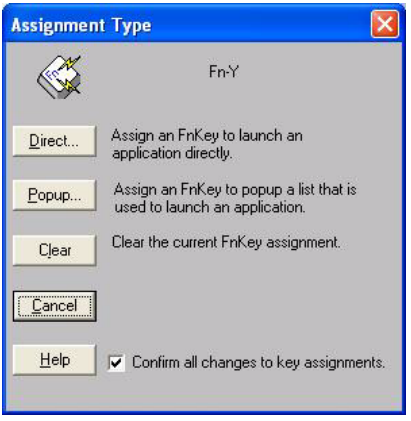
The program or document is now associated with the key you just selected. To open the program or document, press Fn plus the appropriate key from within any Windows® program.

Using the keyboard or pointing device to assign keys

To assign a key to open a program or document, start Fn-esse and either:

- Using the keyboard, press and hold the Fn key, then press the desired assignment key.
- Using the pointing device, move the cursor over the desired key in the Fn-esse window and press the secondary button.

The Assignment Type dialog box appears.



Sample Fn-esse assignment type dialog box

Making a direct key assignment

1. Select **Direct...** to display the Add/Edit Command dialog box.
2. Enter the Description, Command Line and Working Directory for the new Fn-esse key assignment, or click the **Browse** button to specify this information.
3. Click **OK**.

Making a popup assignment

1. Select **Popup...** to display the Application Explorer dialog box.
2. Select the desired folder. The left side of the Application Explorer window displays the folders in the Programs menu. The right side lists the programs and documents in the folder. These are the items that will appear in the popup list.
3. To create a popup list with items from various folders, or to pick only a few items from a folder, create a new folder containing only the desired programs and documents. If you are unsure how to do this, refer to your Windows® XP operating system documentation.
4. Click **OK** to associate the folder with the key you just selected.

   To open a popup list showing the items in that folder, press Fn plus the appropriate key from within any Windows® program.

Viewing existing key assignments

To view the existing key assignments, choose **Assignments** from the Fn-esse keyboard. Fn-esse displays the Function Key Assignments dialog box. This box lists all the key assignments and the program or document to which each key is assigned.

To view items in a popup list, click the **Expand popup lists** check box.

Changing or removing existing key assignments

In the Fn-esse keyboard, click the key you wish to change with the secondary button.

Fn-esse displays the Assignment Type dialog box.

- To change the key assignment, click **Direct...** or **Popup...** and continue as if you were creating a new assignment.
- To remove the key assignment, click **Clear**.

TOSHIBA HW Setup

TOSHIBA HW Setup is a hardware configuration management tool available through Windows. It lets you view general system settings and specify the display, boot priority, keyboard, USB, LAN, CPU, device configuration and parallel/printer options for your computer. To set the IRQ, I/O Address, and DMA channel for communication ports, use the Windows Device Manager.

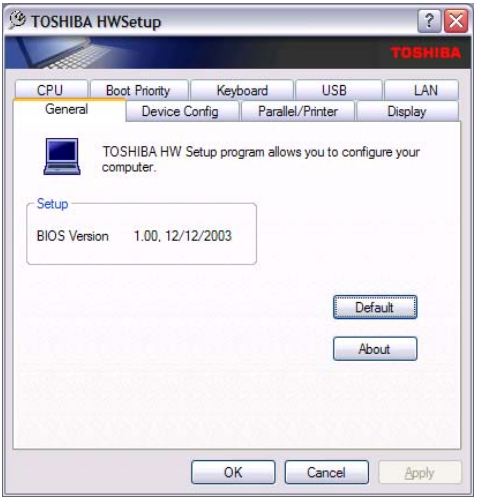
NOTE If the supervisor password is set and you log onto the computer with the user password, you may not be able to access the TOSHIBA HW Setup program.

Accessing TOSHIBA HW Setup

To access TOSHIBA HW Setup, press the TOSHIBA Assist button above the left side of the keyboard.

The TOSHIBA Assist screen appears.

Click **Optimize** and double-click on the **HW Setup** icon to open the HW Setup dialog box.



Sample TOSHIBA HW Setup tab options

Toshiba HW Setup has the following tabs:

- General—Shows the BIOS version or to change settings back to the defaults
- Device Config—Shows the Device configuration options
- Parallel/Printer—Allows you to configure the parallel port default settings
- Display—Allows you to change various default settings for the built-in LCD display

NOTE When the computer restarts, it remembers the last configuration. If data does not appear on the display you are using after starting in Stand By Mode, press Fn + F5.

- CPU—Allows you to enable or disable CPU frequency switching modes.

  Dynamically Switchable—This mode is the default setting for your computer, and automatically changes the processing frequency and decreases voltage depending on the power source:

  AC Power—If your computer is connected to the AC adapter, the CPU frequency mode is set to high for faster processing.

  Battery Power—If your computer is running on battery power, the CPU frequency mode is set to low, for slower processing. Switching the CPU to low allows you to conserve power and extend the operating time of your battery.

  Always High—Sets the CPU speed to high when using either the battery or the AC adapter.

  Always Low—Sets the CPU speed to low when using either the battery or the AC adapter.

- Boot Priority—Allows you to change the sequence in which your computer searches the various drives for the operating system
- Keyboard—Allows you to enable/disable the Wake-on-Keyboard function
- USB—Allows you to enable or disable USB Legacy Emulation
- LAN—Allows you to set networking functions

By changing any of the options that appear in the dialog boxes and clicking Apply, you can reconfigure that function. Any options that you change become default settings when you restart your system.

TOSHIBA Power Saver

The TOSHIBA Power Saver utility enhances your computer's power management capabilities. It controls the computer's Power Save profiles, which is a series of settings for power management. In the TOSHIBA Power Saver Properties dialog box, you can choose which profile to use, change settings for each profile, or create your own custom profiles.

To access Power Saver Properties:

1. Open the **Start** menu, click **Control Panel**, then **Performance and Maintenance**.
2. Click the **TOSHIBA Power Saver** icon.

   The TOSHIBA Power Saver Properties dialog box appears.

Sample TOSHIBA Power Saver Properties dialog box

You may also access the Power Saver Properties by pressing the TOSHIBA Assist button:

1. Press the TOSHIBA Assist above the left side of the keyboard.

The TOSHIBA Assist screen appears.

2 Click Optimize and click the **Power Management** icon.

By changing the options that appear in the Power Saver Properties dialog box and clicking OK, you can reconfigure that function.

You may choose a power-saving management strategy to best suit your computing needs. If you are running on batteries and the programs that you are using do not require a lot of system resources, you may experience longer work sessions by enabling the Normal or Long Life settings.

Any options that you change become the default settings when you exit the program. You do not have to restart your system before they become default settings.

TOSHIBA Mobile Extension

To adjust the settings for docking or using the Slim SelectBay, use the TOSHIBA Mobile Extension Service Configuration.

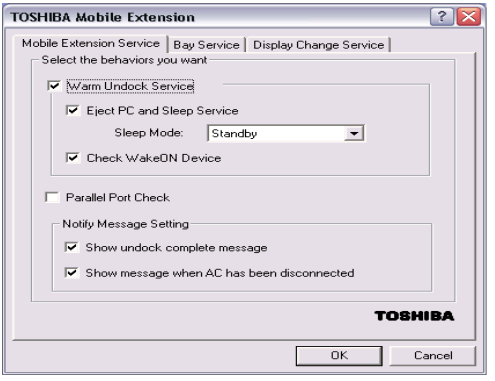
To use the TOSHIBA Mobile Extension Service Configuration:

1 Click **Start**, then **Control Panel**, then **Performance and Maintenance**.

2 Click **TOSHIBA Mobile Extension**.

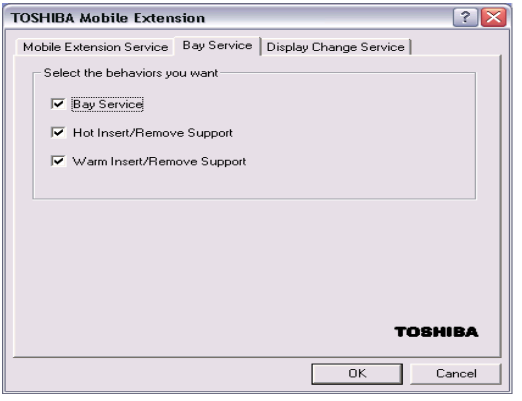
The TOSHIBA Mobile Extension Service Configuration dialog box appears.

3 Under the **Mobile Extension Service** tab, you can select behaviors to enable or disable, sych as Warm Undock Service and Notification Messages, by checking or unchecking the appropriate box.



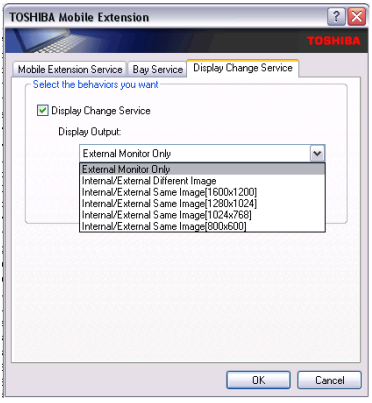
Sample TOSHIBA Mobile Extension Service tab options

4 Under the **SelectBay Service** tab, you can select behaviors like Hot Dock and Warm Dock for your Slim SelectBay.



Sample Bay Service tab options

5 Under the **Display Change Service** tab, you can set the default display configuration you wish to use when docking the system to the optional Advanced Port Replicator III.



Sample Display Change Service tab options

For more information about expansion devices, see "Using an expansion device" on page 70.

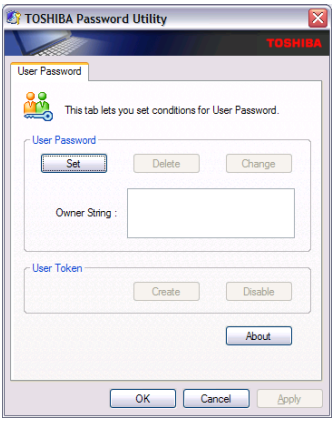
TOSHIBA Password Utility

The TOSHIBA Password Utility allows you to set a user-level password in TOSHIBA Assist or in System Setup.

1 Press the **Toshiba Assist** button and click **Secure**.

2 Click the **User Password** icon.

This opens the TOSHIBA Password Utility.



Sample TOSHIBA Password Utility tab options

3. Click **Set**.
4. Enter a password (then enter it again to verify).
5. Click **Set**.
6. Click **OK** if you want to save the password to a text file on a diskette or media of your choice. Click **Cancel** if you do not want to save the password to a text file. This is known as the password service diskette.
7. Click **OK** to exit.

CAUTION If you choose to set a supervisor or user password, Toshiba strongly recommends that you save your password in a location where you can later access it should you not remember it.

Toshiba is not responsible for any losses that may occur to you, your organization or others as a result of the inability to access your computer.

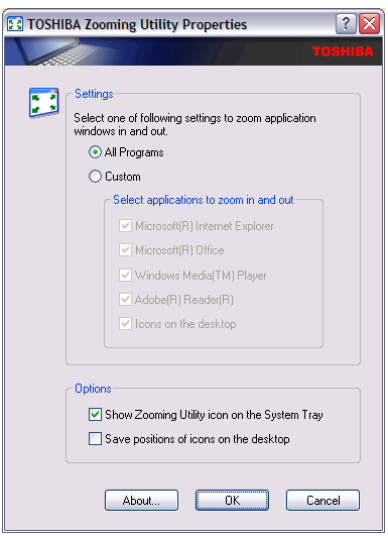
TOSHIBA Zooming Utility

This utility allows you to zoom in and zoom out of applications. You can make this utility work on all applications or specific applications. These are the options available to you:

- All applications.
- All applications with icons on the desktop.
- Microsoft® Internet Explorer, Microsoft® Office, Windows® Media Player, and Adobe® Reader (you can select one or more of these programs).

To access the utility, click **Start**, **All Programs**, **Toshiba**, **Utilities**, and then **TOSHIBA Zooming Utility**.

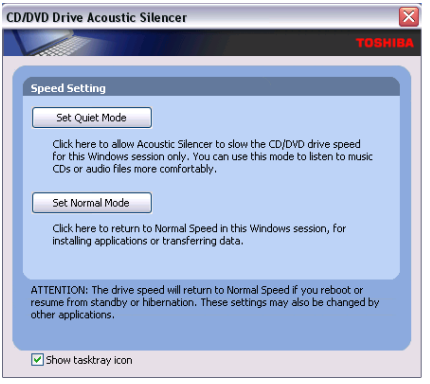
The TOSHIBA Zooming Utility screen appears.



Sample TOSHIBA Zooming Utility screen

For more information about how to use the TOSHIBA Zooming Utility, right click on the icon in the taskbar and click on Help.

TOSHIBA CD/DVD Drive Acoustic Silencer


CD/DVD Drive Acoustic Silencer
TOSHIBA
Speed Setting
Set Quiet Mode
Click here to allow Acoustic Silencer to slow the CD/DVD drive speed for this Windows session only. You can use this mode to listen to music CDs or audio files more comfortably.
Set Normal Mode
Click here to return to Normal Speed in this Windows session, for installing applications or transferring data.
ATTENTION: The drive speed will return to Normal Speed if you reboot or resume from standby or hibernation. These settings may also be changed by other applications.
Show tasktray icon

Sample TOSHIBA CD/DVD Drive Acoustic Silencer screen

This utility can slow the speed of your optical drive to make it run more quietly. You can use this utility to make listening to Music CDs more enjoyable.

NOTE When you change the CD/DVD drive to "Quiet" mode, the setting is only valid for the current Windows session. If you shut down, restart, log off, or resume from hibernation, the setting will revert back to Normal speed. The setting can also be changed by CD burning software or other applications that can set the drive speed.

To change the setting, open the Acoustic Silencer by double-clicking the tasktray icon.

1. Click **Set Quiet Mode** to make the drive run more slowly and quietly, for listening to Music CDs or Audio files on a CD.
2. Click **Set Normal Mode** to run the drive at normal speed, for transferring data.

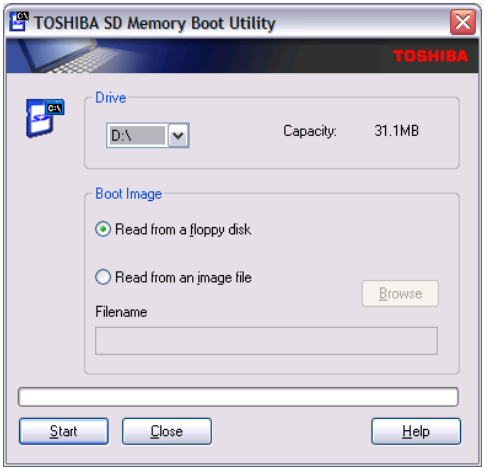
TOSHIBA SD Memory Boot Utility

In order to boot from an SD card, you must make the card SD card bootable. To do so, run the Toshiba SD Memory Boot Utility.

This utility allows you to easily format SD Memory Cards. Refer to the online help documentation within the application for any additional help.

To start the utility, click **Start**, **All Programs**, **Toshiba**, **Utilities**, and click **SD Memory Card**.

The TOSHIBA SD Memory Boot Utility screen appears.



Sample TOSHIBA SD Memory Boot Utility screen

1 Attach a USB floppy drive to your computer, and insert a bootable floppy disk.

2 Insert the SD card.

NOTE Be sure to back up your data to external media before performing this procedure as data on the drive may be lost.

3 Click **Start**, **All Programs**, **Toshiba**, **Utilities**, and then **SD Memory Boot Utility**.

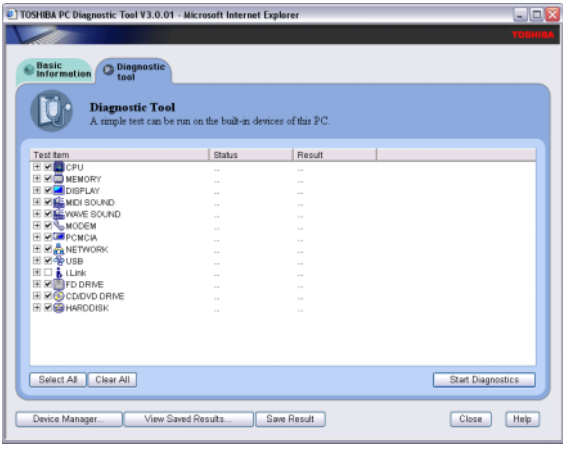
4 Select the drive where the SD is located.

5 Select the **From Floppy image** option.

6 Click the **Start** menu.

NOTE To create a bootable SD with the From image file option, you need a third-party application.

PC Diagnostic Tool



Sample PC Diagnostic Tool screen

This utility can help diagnose problems with devices in your computer. Refer to the online help documentation within the application for any additional help.

To start the utility, click **Start**, **All Programs**, **Toshiba**, **Utilities**, and click **PC Diagnostic Tool**.

TOSHIBA Mic Effect

Sample TOSHIBA Mic Effect screen

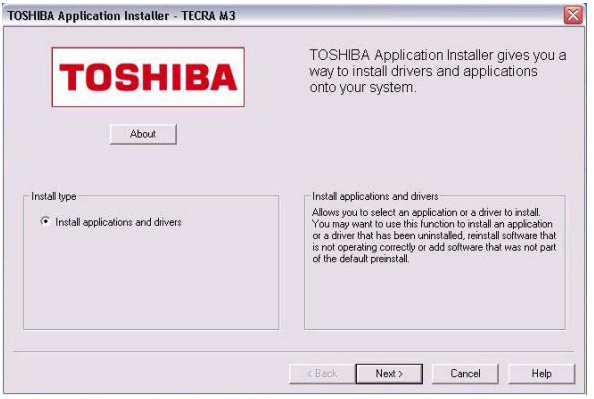
This utility helps reduce background noise and increase voice clarity. Use this utility to improve the quality of voice chat when using third party chat software.

TOSHIBA Application Installer

The TOSHIBA Application Installer allows you to reinstall the drivers and applications that were originally bundled with your computer.

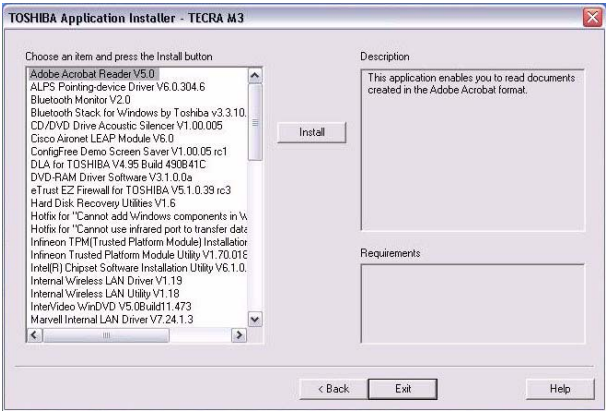
To reinstall drivers and applications:

1. Double-click the **Toshiba Application Installer** icon on the Windows desktop.
2. Click **Next**.


TOSHIBA Application Installer - TECRA M3
TOSHIBA
TOSHIBA Application Installer gives you a way to install drivers and applications onto your system.
About
Install type
Install applications and drivers
Install applications and drivers
Allows you to select an application or a driver to install. You may want to use this function to install an application or a driver that has been uninstalled, reinstall software that is not operating correctly or add software that was not part of the default preinstall.
< Back
Next >
Cancel
Help

Sample TOSHIBA Application Installer screen

3 Click the item(s) you want to install. To select multiple items, hold down the Ctrl key as you make your selections.


TOSHIBA Application Installer - TECRA M3
Choose an item and press the Install button
Adobe Acrobat Reader V5.0
ALPS Pointing-device Driver V6.0.304.6
Bluetooth Monitor V2.0
Bluetooth Stack for Windows by Toshiba v3.3.10.
CD/DVD Drive Acoustic Silencer V1.00.005
Cisco Aironet LEAP Module V6.0
ConfigFree Demo Screen Saver V1.00.05 rc1
DLA for TOSHIBA V4.95 Build 490841C
DVD-RAM Driver Software V3.1.0.0a
eTrust EZ Firewall for TOSHIBA V5.1.0.39 rc3
Hard Disk Recovery Utilities V1.6
Hotfix for "Cannot add Windows components in W
Hotfix for "Cannot use infrared port to transfer data
Infineon TPM(Trusted Platform Module) Installation
Infineon Trusted Platform Module Utility V1.70.018
Intel(R) Chipset Software Installation Utility V6.1.0.
Internal Wireless LAN Driver V1.19
Internal Wireless LAN Utility V1.18
InterVideo WinDVD V5.0Build11.473
Marvell Internal LAN Driver V7.24.1.3
Install
Description
This application enables you to read documents created in the Adobe Acrobat format.
Requirements
< Back
Exit
Help

Sample TOSHIBA Application Installer selection screen

4 Click **Install**.

5 Follow the on-screen prompts to complete the installation process.

Chapter 7

Keeping Your Files Safe

You may have files on your computer that you want to keep private. Your computer comes with several options that can help you keep your computer and files safe from unwanted intrusion.

This chapter describes the security options for your notebook computer.

Using passwords in Windows

Setting a password lets you walk away from your computer, secure in the knowledge that nobody can access your files. When you set a password, you must enter the password before you can work on your computer again.

Toshiba supports the following types of passwords on the computer:

- An instant (user-level) password that secures your open programs and files when you need to leave the computer temporarily.
- A power-on (user-level) password that requires you to enter the password whenever you start the computer.

- A supervisor-level password that protects system settings by restricting who can make changes in Toshiba Utilities and System Setup. This is useful if more than one person is using the computer.

CAUTION If you choose to set a supervisor or user password, Toshiba strongly recommends that you save your password in a location where you can later access it should you not remember it.

Toshiba is not responsible for any losses that may occur to you, your organization or others as a result of the liability to access the computer.

- A hard disk drive password that protects your data by requiring a password when you try to access the hard disk, whether it is in your computer or in another system. You can set a hard disk drive user password and/or a hard disk drive master password.

CAUTION If you choose to set a hard disk drive user password, we strongly recommend that you set a hard disk drive master password as well.

If you set a hard disk drive user password and later forget the password, YOU WILL NEVER BE ABLE TO ACCESS YOUR HARD DISK AGAIN unless you have set a hard disk drive master password and you remember that password.

Toshiba is not responsible for any losses that may occur to you, your organization or others as a result of the inability to access the hard drive.

Setting user-level passwords

Setting a password lets you walk away from your computer, secure in the knowledge that nobody can access your files. When you set a password, you must enter the password before you can work on your computer again.

Toshiba supports the following types of user-level passwords on your computer:

- A power-on password—Prevents unauthorized users from starting or restarting the computer.
- An instant password—Secures your open programs and files when you need to leave the computer temporarily.

CAUTION Make sure you use a password you can remember easily. If you ever forget your password, contact your network administrator.

A good way to prevent forgetting your password is to create a password service diskette. Refer to "Setting a power-on (user-level) password" on page 190 for instructions.

Using an instant user-level password

An instant password secures your system with a single keystroke. Use this feature when you leave your desk for a few minutes and do not want to turn off the computer.

1. Press and hold Fn, then press F1.

   The screen goes blank.

2. To return to work, move the Toshiba Dual Pointing Device or press a key.

   On the logon screen, select a user.

3. For the selected user:

   - If you have not registered a user password, press Enter.

- If you have registered a user password, type the password and press Enter.

The system displays the desktop.

Setting a Windows user password

To register a password for the Windows Logon and Instant Password functions:

1. Click **Start**, then **Control Panel**.
2. Click **User Accounts**.
3. Select **Create a password**.
4. Enter the password and password hint as directed.
5. Click **Create Password**.
6. Click the Close icon (X) to close the User Accounts window.

When you log on to Windows, you must enter this password. You must also enter this password to bring the machine out of instant security mode. <Fn><F1> is used to place the system into instant security mode.

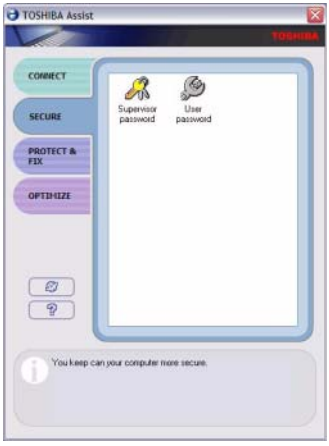
Using a power-on (user-level) password

A power-on password prevents other users from accessing your computer.

Setting a power-on (user-level) password

1. Open **TOSHIBA Assist** by pressing the Toshiba Assist button or pressing **Start**, **TOSHIBA**, **Utilities**, then click **Assist**.
2. Click the **Secure** tab.

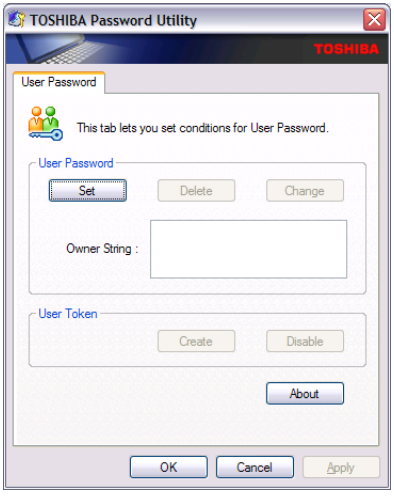
   The TOSHIBA Assist Secure screen appears.



Sample TOSHIBA Assist Secure screen

3 Click the **User Password** icon.

This opens the TOSHIBA Password utility.



Sample TOSHIBA Password Utility tab options

4 Click **Set**.

5 Enter a password (then enter it again to verify).

6 Click **Set**.

7 Click **OK** if you want to save the password to a text file on a diskette or media of your choice. Click **Cancel** if you do not want to save the password to a text file.

8 Click **OK** to exit.

Creating a user token on an SD memory card

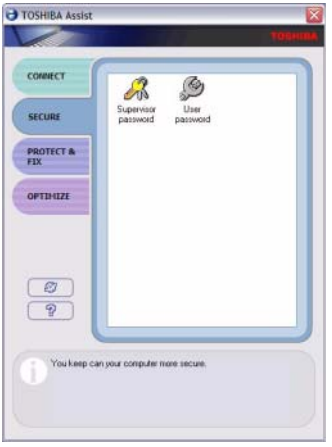
You may use an SD Memory Card as an access token, inserting it in lieu of a user password, when one is requested. To create a token, insert the formatted SD Memory Card and click **Create**.

Deleting a power on (user-level) password

1 Open **TOSHIBA Assist** by pressing the Toshiba Assist button or pressing **Start**, **TOSHIBA**, **Utilities**, then click **Assist**.

2 Click the **Secure** tab.

The TOSHIBA Assist Secure screen appears.



Sample TOSHIBA Assist Secure screen

3 Click the **User password** icon.

4 Select **Delete**.

5 Enter the correct password.

6 Click **Delete**, then click **OK** twice to exit.

Deleting a user token on an SD memory card

To delete a user token, insert the SD Memory Card that contains the token information and click **Disable**.

Using the power-on (user-level) password

Whenever you start your computer with a power-on (user-level) password in effect, the computer prompts you to enter the password before it goes through its normal startup procedure.

When your computer prompts you to enter your password, type it in and press Enter. If you enter the password correctly, the computer continues with its normal startup procedure. If you enter an incorrect password, the computer beeps. After three incorrect attempts, the system turns off automatically.

If you have forgotten your password and you have a password service diskette:

1 Connect your diskette drive. For instructions, see "Connecting an optional external diskette drive" on page 68.

2 Turn on the computer.

The system prompts you for your password.

3 Insert the password service diskette into the diskette drive and press Enter.

The system prompts you, "Set Password Again (Y/N)?"

CAUTION The password service diskette is not reusable. Once you use it, you must create a new diskette, even if you set the same password.

4 To enter System Setup and reset your password, press Y. To remove your password, press N. It will no longer be registered.

Using a supervisor password

A supervisor password prevents other users from changing hardware configuration options.

Setting a supervisor password

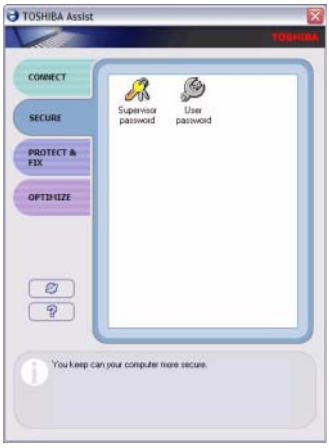
CAUTION If you choose to set a supervisor or user password, Toshiba strongly recommends that you save your password in a location where you can later access it should you not remember it.

Toshiba is not responsible for any losses that may occur to you, your organization or others as a result of the liability to access the computer.

1 Open **TOSHIBA Assist** by pressing the Toshiba Assist button or pressing **Start**, **TOSHIBA**, **Utilities**, then click **Assist**.

2 Click the **Secure** tab.

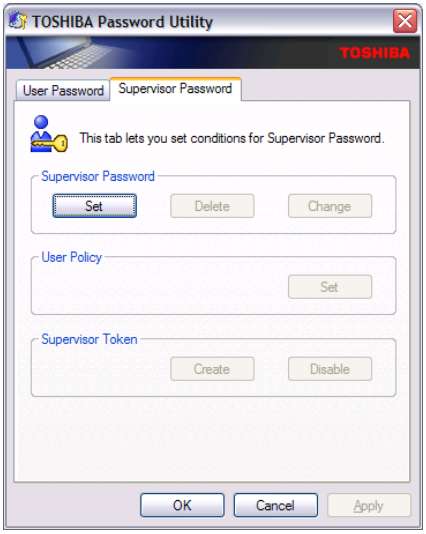
The TOSHIBA Assist Secure screen appears.



Sample TOSHIBA Assist Secure screen

3 Click the **Supervisor Password** icon.

This opens the TOSHIBA Password utility.



Sample TOSHIBA Password Utility tab options

4 Click **Set**.

5 Enter a password (then enter it again to verify).

6 Click **Set**.

7 Click **OK** if you want to save the password to a text file on a diskette or media of your choice. Click **Cancel** if you do not want to save the password to a text file.

8 Click **OK** to exit.

Creating a supervisor token on an SD memory card

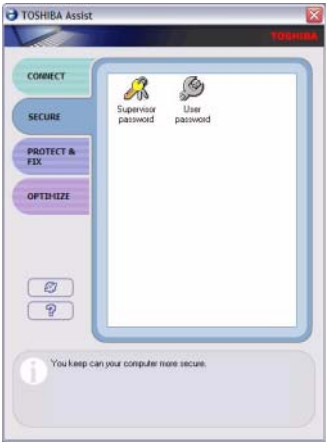
You may use an SD Memory Card as an access token, inserting it in lieu of a supervisor password, when one is requested. To create a token, insert the formatted SD Memory Card and click **Create**.

Deleting a supervisor password

1 Open **TOSHIBA Assist** by pressing the Toshiba Assist button or pressing **Start**, **TOSHIBA**, **Utilities**, then click **Assist**.

2 Click the **Secure** tab.

The TOSHIBA Assist Secure screen appears.



Sample TOSHIBA Assist Secure screen

3 Click the **Supervisor password** icon.

4 Select **Delete**.

5 Enter the correct password.

6 Click **Delete**, then click **OK** twice to exit.

Deleting a supervisor token on an optional SD Memory Card

To delete a supervisor token, insert the optional SD Memory Card that contains the token information and click **Disable**.

Hard disk drive passwords

Your computer comes with a System Setup utility that lets you set two types of hard disk drive passwords—user and master. These passwords protect both your primary and optional Slim SelectBay hard drive as follows:

- Setting a hard disk drive user password prevents an unauthorized user from accessing your hard disk, even if it is removed and installed on another computer. This password does not encrypt data on the hard disk.
- Setting a hard disk drive master password lets you bypass the hard disk drive user password and access your hard disk, in case you forget the hard disk drive user password. If you choose to set a hard disk drive master password, you should set it before you set a hard disk drive user password.

HINT: The hard disk drive shipped with your computer may not support the master password feature. When you attempt to set master password protection, your computer may alert you that this feature is not supported by your drive. If this happens and you want to establish a master password for your hard disk, contact your network administrator for instructions.

Setting a hard disk drive user only password in System Setup

CAUTION If you choose to set a hard disk drive user password, we strongly recommend that you set a hard disk drive master password as well (see "Setting a hard disk drive master and user password in System Setup" on page 200 for more information).

If you set a hard disk drive user password and later forget the password, YOU WILL NEVER BE ABLE TO ACCESS YOUR HARD DISK AGAIN, unless you have set a hard disk drive master password.

Toshiba is not responsible for any losses that may occur to you, your organization or others as a result of the inability to access the hard drive.

To register a user only password in System Setup:

1. Click **Start**, then click **Shutdown**, and click **OK**.

   The computer shuts down.

2. Hold down the Esc key and press and hold the power button until the on/off light on the system indicator panel illuminates (green) for approximately one second. When the following message appears on the screen: "Check system, Then press [F1] key," press F1.

   The System Setup screen appears.

3. Press H to move to the **HDD PASSWORD** section on the screen.

4. Press the spacebar to select **User Only** password mode.

5. Press an arrow key to move to the **User Password** option.

6. Press the spacebar, then type a password of 1 to 16 characters and press Enter. You may use any combination of letters and numbers in your password.

7 When System Setup prompts you to verify the password, type it again and press Enter.

If the two passwords match, System Setup displays: Registered. If the two passwords do not match, an error message appears. Repeat step 6 and step 7 to enter the password again.

8 Press End to save the change.

9 When System Setup prompts you to confirm your change, press Y.

Deleting or changing a hard disk drive user only password in System Setup

To delete or change a user only password in System Setup:

1 Click **Start**, then click **Shutdown**, and click **OK**.

The computer shuts down.

2 Hold down the Esc key and press and hold the power button until the on/off light on the system indicator panel illuminates (green) for approximately one second. When the following message appears on the screen: "Check system, Then press [F1] key," press F1.

The System Setup screen appears.

3 Press H to move to the **HDD PASSWORD** section on the screen.

4 Press the spacebar, then type in your user password and press Enter.

5 If you want to change the password, input the new password. If you want to delete the password, proceed to step 7.

6 When System Setup prompts you to verify the password, type it again and press Enter.

If the two passwords match, System Setup displays: Registered. If the two passwords do not match, an error message appears. Repeat step 5 and step 6 to enter the password again.

7 If you want to delete the user password, leave the space blank and press Enter twice. System Setup displays: Not Registered.

8 Press End to save the change.

9 When System Setup prompts you to confirm your change, press Y.

Setting a hard disk drive master and user password in System Setup

CAUTION Make sure you choose a hard disk drive master password you can remember easily. If you set a hard disk drive user password and later forget the password or lose your password diskette, you will need to enter the hard disk drive master password in order to access your hard disk.

HINT: The hard disk drive shipped with your computer may not support the master password feature. When you attempt to set master password protection, your computer may alert you that this feature is not supported by your drive. If this happens and you want to establish a master password for your hard disk, contact your network administrator for instructions.

To register master and user passwords in System Setup:

1 Click **Start**, then click **Shutdown**, and click **OK**.

The computer shuts down.

2 Hold down the Esc key and press and hold the power button until the on/off light on the system indicator panel illuminates (green) for approximately one second. When the following message appears on the screen: "Check system, Then press [F1] key," press F1.

   The System Setup screen appears.

3 Press H to move to the **HDD PASSWORD** section on the screen.

4 Press the spacebar to select **Master + User** password mode.

5 Press an arrow key to move to the Master Password section. You must register a Master Password first.

6 Press the spacebar, then type a password of 1 to 16 characters and press Enter. You may use any combination of letters and numbers in your password.

7 When System Setup prompts you to verify the password, type it again and press Enter.

   If the two passwords match, System Setup displays: Registered for both User and Master passwords. If the two passwords do not match, an error message appears. Repeat step 6 and step 7 to enter the password again.

8 Press End to save the change.

9 When System Setup prompts you to confirm your change, press Y.

Changing the master and user passwords in System Setup

To change the master and user passwords in System Setup:

1 Click **Start**, then click **Shutdown**, and click **OK**.

   The computer shuts down.

2 Hold down the Esc key and press and hold the power button until the on/off light on the system indicator panel illuminates (green) for approximately one second. When

the following message appears on the screen: "Check system, Then press [F1] key," press F1.

The System Setup screen appears.

3 Press H to move to the **HDD PASSWORD** section on the screen.

4 Use the up and down arrow keys to select the password you wish to change.

5 Press the spacebar, then enter the appropriate password and press Enter.

6 If you want to change your password, input the new password.

7 When System Setup prompts you to verify the password, type it again and press Enter.

If the two passwords match, System Setup displays: Registered. Note that you can only change (not delete) the user password if a master password is registered.

8 Press End to save the change.

9 When System Setup prompts you to confirm your change, press Y.

Deleting the hard disk drive master and user passwords in the System Setup

HINT: You must delete the hard disk drive master password before you can delete the hard disk drive user password.

To delete the master and user passwords in System Setup:

1 Click **Start**, then click **Shutdown**, and click **OK**.

The computer shuts down.

2 Hold down the Esc key and press and hold the power button until the on/off light on the system indicator panel illuminates (green) for approximately one second. When the following message appears on the screen: "Check system, Then press [F1] key," press F1.

   The System Setup screen appears.

3 Press H to move to the **HDD PASSWORD** section on the screen.

4 Select the Master Password using the down arrow key.

5 Press the spacebar, the enter the master password and press Enter.

6 If you want to delete the master password, leave the space blank and press Enter twice.

   System Setup displays: Not Registered. The user password will also display as Not Registered.

7 Press End to save the change.

8 When System Setup prompts you to confirm your change, press Y.

Chapter 8

If Something Goes Wrong

Some problems you may encounter when using your notebook computer are relatively easy to identify and solve. Others may require help from your dealer or the manufacturer of a software program.

This chapter aims to help you solve many problems by yourself. It covers the problems you are most likely to encounter. If all else fails, contact Toshiba. You will find information on Toshiba's support services at the end of this chapter.

Problems that are easy to fix

Your program stops responding.

If you are working with a program that suddenly freezes all operations, chances are the program has stopped responding. You can exit the failed program without shutting down the operating system or closing other programs.

To close a program that has stopped responding:

1 Press Ctrl, Alt, and Del simultaneously (once).

The Windows Task Manager window appears.

2 Click the **Applications** tab.

If a program has stopped responding, the words "not responding" appear beside its name in the list.

3 Select the program you want to close, then click **End Task**.

Closing the failed program should allow you to continue working. If it does not, continue with step 3.

4 Close the remaining programs one by one by selecting the program name, then **End Task**.

5 Click **Start**, **Turn off computer**.

The Turn off computer window appears.

NOTE There is also a Shut Down option on the Windows Task Manager.

6 Click **Turn off**.

The computer turns off.

Your program performs an illegal operation.

If you receive the message, "Your program has performed an illegal operation," you should wait to see if it happens again. If it does, record the details of the message and consult the software manufacturer.

To record the details:

1 Click the **Details** button and select the text the operating system displays.

The Details button displays information that the software manufacturer needs to help you solve your problem.

2 Press Ctrl and c simultaneously to copy the text to the clipboard.

3. Open Notepad (click **Start**, point to **All Programs**, then point to **Accessories** and click **Notepad**).
4. Press Ctrl and v simultaneously to paste the details into Notepad.
5. Add a paragraph break and type some notes describing what you were doing when you received the message, and how the error can be reproduced.
6. Save the file and refer to it when you contact the software manufacturer.

Problems when you turn on the computer

These problems may occur when you turn on the power.

The computer will not start.

Make sure you attached the AC adapter and power cable properly or installed a charged battery.

Press and hold down the power button for at least 10 seconds.

If you are using the AC adapter, check that the wall outlet is working by plugging in another device, such as a lamp.

Verify that the computer is on by looking at the On/off indicator. If the indicator is glowing, the computer is on.

If you are using an AC adapter, verify that the computer is receiving power from the external power source by looking at the AC power light. If the indicator is glowing, the computer is connected to a live external power source.

The computer starts but, when you press a key, nothing happens.

Verify that the active program accepts text input. Try clicking your mouse on an area where you can type text, and try typing again.

You may be in Stand By mode and have a software or resource conflict. When this happens, turning the power on

returns you to the problem instead of restarting the system. To clear the condition, press Ctrl, Alt, and Del simultaneously.

Clearing the condition may get the computer running, but it will not solve a resource conflict. Read the documentation that came with the conflicting device and "Resolving a hardware conflict" on page 211.

The computer is not accessing the hard disk or the external diskette drive.

Your computer normally loads the operating system from the hard disk. If you have a hard disk problem, you will not be able to start the computer. Insert a system diskette into the external diskette drive and press F12 when the machine starts, then use the arrow keys to select the boot-up device.

The computer displays the WARNING RESUME FAILURE message.

The computer was placed in Stand By mode and the battery has discharged. Data stored in the computer's memory has been lost. However, data stored in the computer's hard drive may not be affected.

Always save your data even when you are using Stand By. If your battery fully discharges, information that has not been saved will be lost. Your computer can be configured to warn you when the battery is running low, see "What to do when the battery alarm sounds" on page 141.

If you are running on battery power, it is recommended that you do not leave the computer in Stand By mode for long periods of time.

To charge the battery, leave the computer plugged into a live wall outlet for several hours. For more information, see "Power and the batteries" on page 216.

The computer displays the Non-System disk or disk error message.

Make sure there is no diskette in the diskette drive. If there is one, remove it and press any key to continue. If pressing any key does not work, press Ctrl, Alt, and Del to restart the

computer. For more information, see "The computer is not accessing the hard disk or the external diskette drive." on page 207.

The Windows® operating system is not working

Once you are familiar with the desktop and used to the way the operating system responds to your work routine, you can easily detect if the operating system is not working correctly. For example:

- The operating system fails to start after the Starting Windows XP message appears.
- The operating system takes a long time to start.
- The operating system responds differently from the normal routine.
- The screen does not look right.

Unless a hardware device has failed, problems usually occur when you change the system in some way such as installing a new program or adding a device.

If you experience any of these problems, use the options in the Startup menu to fix the problem.

Using Startup options to fix problems

If the operating system fails to start properly, you may have to change your system's configuration or verify the startup procedure to fix the problem. To do this, use the options in the Startup menu.

To open the Startup menu:

1. Restart your computer.
2. Press F8 when your computer starts and before Windows® starts loading.

The Windows® Advanced Options menu displays these options:

- Safe Mode
- Safe Mode (with Networking)
- Safe Mode (with Command Prompt)
- Enable Boot Logging
- Enable VGA Mode
- Last known good configuration (your most recent settings that worked)
- Directory Services Restore Mode (Windows® domain controllers only)
- Debugging Mode
- Start Windows® normally
- Reboot
- Return to OS Choices (menu)

See your Windows® documentation for further explanation.

TECHNICAL NOTE: If your computer is connected to a network, the Startup menu may display different versions of Safe mode.

Internet problems

My Internet connection is very slow.

Many factors contribute to the speed with which you can surf the Internet. They include: modem speed, telephone line conditions, time of day (when everyone else is surfing, your access can be slow), and popularity of the site. If accessing a particular site is very slow, try later.

My browser cannot find the URL address I typed in.

Make sure you separated the domain names of the address with the forward slash (/). Check the spelling of each name and the syntax of the address carefully. A single incorrect letter or missed character, comma instead of period ("dot"), or other mistake makes it impossible for your browser to locate the site.

My browser cannot find a site I bookmarked.

The World Wide Web is constantly changing. A site you bookmarked yesterday may not be available today or its server may be down for temporary repair. Try again later.

The Windows® XP operating system can help you

If the operating system has started properly, but you still have a problem using your computer, the online Help can assist you in troubleshooting the problem.

To access Windows® XP Help and Support:

1 Click **Start**, then click **Help and Support**.

The Help and Support window appears.

2 Then do one or both of the following:

- In the search field, type the topic of the problem with which you need help and follow the on-screen instructions.
- Click a problem about which you would like help from the listings and follow the on-screen instructions.

You can connect to Support Online by clicking **Support** from the menu or by going to pcsupport.toshiba.com.

Resolving a hardware conflict

If you receive an error message telling you there is a device driver conflict or a general hardware problem, try using Windows® Help and Support to troubleshoot the problem first.

For help on hardware conflicts:

1. Click Start, then click **Help and Support**.
2. Click the **Hardware** link in the window's left pane.

   A list of category links appear.
3. Click the **Fixing a hardware problem** link.
4. Choose from specific topics and follow the steps.

If there is still a problem, the operating system should display a message that explains what the conflict is.

A plan of action

The smooth operation of the system depends on the interaction of all devices, programs, and features. If the system or one of its attached devices is not working, resolving the problem can be time-consuming and frustrating.

The recommended procedure for getting multiple devices to work together is to add and set up one device at a time. After you add each device, test it to make sure it and all previously connected devices work.

The device most recently connected to the system is the one most likely to be causing a hardware conflict.

Resolving hardware conflicts on your own

Computer components need resources to accomplish a task. A device, such as a disk drive or a modem, needs a channel to the computer's Central Processing Unit (CPU). It also needs a direct channel to the computer's memory to store information

as it works. These channels of communication are commonly referred to as system resources.

Interrupt Request Channel

The channel to the CPU is called an Interrupt Request (IRQ) because it interrupts what the processor is doing and requests some of the processor's time.

Direct Memory Access

Similarly, the data required by the device is stored in a specific place or address in memory called the Direct Memory Access (DMA). The DMA provides a dedicated channel for adapter cards to bypass the microprocessor and access memory directly. If two or more devices use the same DMA, the data required by one device overwrites the data required by the other, causing a hardware conflict.

Plug and Play

With Plug and Play and the Windows® XP operating system, avoiding hardware conflicts is easy. Plug and Play is a computer standard that helps the system BIOS (basic input/output system) and the operating system to automatically assign resources to Plug and Play-compliant devices. In theory, if every device connected to the computer is Plug and Play-compliant, no two devices will compete for the same system resources. Simply plug in the device and turn on your computer. The operating system automatically sets up your system to accommodate the new device.

If you install an older (legacy) device that the operating system cannot recognize, the operating system may have difficulty assigning resources to it. As a result, a hardware conflict can occur. To see what resources the operating system has assigned to the device, see "Checking device properties" on page 214.

Resolving conflicts

There are several things you can do to resolve hardware conflicts:

- Get the most recent drivers from the manufacturer.
- Disable the device.

  For an older device, remove it from the computer.
- Disable another system component and use its resources for the new device, see "Fixing a problem with Device Manager" on page 213.
- Reconfigure the device so that its requirements do not conflict. Refer to the device's documentation for instructions about changing settings on the device.

Fixing a problem with Device Manager

Device Manager provides a way to check and change the configuration of a device.

CAUTION Changing the default settings using Device Manager can cause other conflicts that make one or more devices unusable. Device Manager is a configuration tool for advanced users who understand configuration parameters and the ramifications of changing them.

Disabling a device

1. Open the **Start** menu, click **Control Panel**, then **Performance and Maintenance**.
2. Click the **Administrative Tools** icon.
3. Double-click **Computer Management** and then click **Device Manager**.

4 Select the specific device from the device category. To expand a device category, double-click the category.

5 In the toolbar, look to the far right for an icon of a monitor with a strike mark through a circle on the front. This is the disable feature.

6 Click the icon.

You are given the option of disabling the device.

7 Click **Yes** to disable the device or **No** to cancel.

Checking device properties

Device Manager provides a way to view the properties of a device. Properties include the name of the manufacturer, the type of device, the drivers installed, and the system resources assigned to the device.

To check a device's properties:

1 Open the **Start** menu, then click **Control Panel**.

2 Click **Performance and Maintenance**, and then **Administrative Tools**.

3 Double-click the **Computer Management** icon, and then click **Device Manager**.

4 To view the device(s) installed, double-click the device type.

5 To view the properties, double-click the device.

The operating system displays the Device Properties dialog box, which provides an array of tabs. They may include:

- The **General** tab, which provides basic information about the device.
- The **Resource** tab, which lists resources assigned to the monitor, DVD-ROM, multi-function drive, diskette disk drive, and other power-using functions. This tab does not appear if the device is not using resources.

- The **Driver** tab, which displays the drivers being used by the device.

The tabs that appear in the dialog box vary from one device to another. A Troubleshooting button is also present.

6 Click **Troubleshoot**.

A Help and Support window for that device appears.

For more information about Device Manager, refer to Windows® XP online help.

Memory problems

Incorrectly connected or faulty memory modules may cause errors that seem to be device-related. It is worthwhile checking for these first:

1 Click **Start**, then click **Turn off computer**.

2 Click **Turn Off**.

The operating system shuts down and turns off the computer automatically.

3 Remove the memory module.

4 Reinstall the memory module, following the instructions in "Adding memory" on page 70, and making sure it is seated properly.

5 Check for the error again.

6 If the error recurs, remove the memory module entirely and check for the error again.

If removing the memory module eliminates the error, the memory module may be faulty. If the error recurs without the

memory module installed, the error is not caused by the memory module.

TECHNICAL NOTE: You must have at least one memory module installed for the computer to work.

Power and the batteries

Your computer receives its power through the AC adapter and power cable or from the system batteries (main battery and real-time clock (RTC) battery). Power problems are interrelated. For example, a faulty AC adapter or power cable will neither power the computer nor recharge the batteries.

Here are some typical problems and how to solve them:

The AC power light does not come on when you plug in the AC adapter and power cable.

Make sure the AC adapter and power cable are firmly plugged into both the wall outlet and the computer.

If the AC power light still does not come on, check that the wall outlet is working properly by plugging in a lamp or other appliance.

The AC adapter and power cable work correctly, but the battery will not charge.

The battery does not charge while the computer is consuming full power. Try turning off the computer.

The main battery may not be inserted correctly in the computer. Turn off the computer, remove the battery, clean the contacts with a soft dry cloth (if necessary), and replace the battery.

The battery may be too hot or too cold to charge properly. If you think this is the probable cause, let the battery reach room temperature and try again.

If the battery has completely discharged, it will not begin charging immediately. Leave the AC adapter and power cable connected, wait 20 minutes and see if the battery is charging.

If the battery light is glowing after 20 minutes, let the computer continue charging the battery for at least another 20 minutes before you turn on the computer.

If the battery light does not glow after 20 minutes, the battery may have reached the end of its useful life. Try replacing it.

The battery appears not to power the computer for as long as it usually does.

If you frequently recharge a partially charged battery, it may not charge fully. Let the battery discharge completely, then try charging it again.

Check the power options using the Power Saver utility. Have you added a device, such as a PC Card or memory module, that takes its power from the battery? Is your software using the hard disk more? Is the display power set to turn off automatically? Was the battery fully charged to begin with? All these conditions affect how long the charge lasts.

Battery life may vary, depending on applications, power management settings, and features utilized. Recharge time varies depending on usage. The battery may not charge while the computer is consuming full power.

After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see your accessories information that shipped with your computer, or to stay current on the most recent software and hardware options for your computer, and for other product information, regularly check the Toshiba Web site at accessories.toshiba.com.

To ensure that the battery maintains its maximum capacity, operate the computer on battery power at least once a month until the battery is fully discharged. Please see "Maximizing battery life" on page 145 for procedures. If the computer is

continuously operated on AC power, either through an AC adapter or a docking station (if applicable to your system), for an extended period (more than a month), the battery may fail to retain a charge. This may shorten the life of the battery, and the battery light may not indicate a low-battery condition.

Keyboard problems

If, when you type, strange things happen or nothing happens, the problem may be related to the keyboard itself.

The keyboard produces unexpected characters.

A keypad overlay may be on. If the numeric keypad or cursor control light is on, press Fn and F10 simultaneously to turn off the cursor control light or press Fn and F11 simultaneously to turn off the numeric keypad light.

If the problem occurs when both the keypad overlays are off, make sure the software you are using is not remapping the keyboard. Refer to the software's documentation and check that the program does not assign different meanings to any of the keys.

You have connected an external keyboard and the operating system displays one or more keyboard error messages.

If you have a second keyboard, try it. If it works, the first keyboard may be defective or incompatible with your computer.

Display problems

Here are some typical display problems and their solutions:

The display is blank.

Display Auto Off may have gone into effect. Press any key to activate the screen.

You may have activated the instant password feature by pressing Fn and F1 simultaneously. If you have registered a

password, press the Enter key, type the password, and press Enter. If no password is registered, press Enter. The screen reactivates and allows you to continue working.

If you are using the built-in screen, make sure the display priority is not set for an external monitor. To do this, hold the Fn key and press F5 twice. A window with display choices pops up. Hold the Fn key and press F5 twice again to advance through the display options.

HINT: Holding the Fn key and pressing the F5 key several times will advance through the display options.

If you are using an external monitor:

- Check that the monitor is turned on.
- Check that the monitor's power cable is firmly plugged into a working power outlet.
- Check that the cable connecting the external monitor to the computer is firmly attached.
- Try adjusting the contrast and brightness controls on the external monitor.
- Press Fn and F5 simultaneously to make sure the display priority is not set for the built-in screen.

The screen does not look right.

You can change the display settings by clicking a blank area of the desktop with the secondary control button, then clicking **Properties**. This opens the Display Properties dialog box. The Appearance tab of this dialog box allows you to choose the colors for the screen. The Settings tab allows you to choose the screen resolution.

The built-in screen flickers.

Some flickering is a normal result of the way the screen produces colors. To reduce the amount of flickering, try using fewer colors.

To change the number of colors displayed:

1. Point at the desktop and click with the secondary button.
2. Click **Properties**, and then the **Settings** tab.
3. Change the Colors option and click **OK**.

For more information, see Windows® Help.

A message tells you that there is a problem with your display settings and that the adapter type is incorrect or the current settings do not work with your hardware.

Reduce the size of the color palette to one that is supported by the computer's internal display.

To change the display properties:

1. Point at the desktop and click with the secondary button.

   The Display Properties window appears.
2. Click **Properties**, then click the **Settings** tab.
3. Adjust the screen resolution and/or color quality.
4. Click **OK**.

The display mode is set to Simultaneous and the external display device does not work.

Make sure the external monitor is capable of displaying at resolutions of 800 x 600 or higher. Devices that do not support this resolution will only work in Internal/External mode, and not simultaneous mode.

Small bright dots appear on your TFT display when you turn on your computer.

Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. The small bright dots that appear on your display are an intrinsic characteristic of the TFT manufacturing technology.

NOTE Over a period of time, and depending on the usage of the computer, the brightness of the LCD Screen will deteriorate. This is an intrinsic characteristic of LCD technology.

The screen will dim when the computer is operated on battery power and you may not be able to increase the brightness of the screen.

Disk drive problems

Problems with the hard disk or with a diskette drive usually show up as an inability to access the disk or as sector errors. Sometimes a disk problem may cause one or more files to appear to have garbage in them. Typical disk problems are:

You are having trouble accessing a disk, or one or more files appear to be missing.

Make sure you are identifying the drive by its correct name (A: or C:).

Error-checking

Run Error-checking, which analyzes the directories, files, and File Allocation Table (FAT) on the disk and repairs any damage it finds:

To run Error-checking:

1. Click **Start**, then click **My Computer**.
2. Right-click the drive you want to check and select **Properties** from the menu.

   The drive's properties box appears.

NOTE This feature is not available for CD/DVD drives.

3. Click the **Tools** tab.
4. Click the **Check now** button.

   The Check Disk All Apps box appears.
5. You can choose one or both options:
   - Automatically fix file system errors
   - Scan for and attempt recovery of bad sectors
6. Click **Start**.

   Error-checking runs the test.

Your hard disk seems very slow.

If you have been using your computer for some time, your files may have become fragmented. Run Disk Defragmenter. To do this, click **Start**, then click **All Programs**, point to **Accessories** and **System Tools**, and click **Disk Defragmenter**.

Your data files are damaged or corrupted.

Refer to your software documentation for file recovery procedures. Many software packages automatically create backup files.

You may also be able to recover lost data using utility software, which is available from your dealer.

Some programs run correctly but others do not.

This is probably a configuration problem. If a program does not run properly, refer to its documentation and check that the hardware configuration meets its needs.

A diskette will not go into the external diskette drive.

You may already have a diskette in the drive. Make sure the drive is empty.

You may be inserting the diskette incorrectly. Hold the diskette with the hub side facing down, and insert it so that the metal head window cover goes into the drive first.

The metal cover or a loose label may be obstructing the path into the drive. Carefully inspect the diskette. If the metal cover is loose, replace the diskette. If the label is loose, replace the label and try inserting the diskette again.

The computer displays the Non-system disk or disk error **message.**

If you are starting the computer from a diskette, the diskette in the drive does not have the files necessary to start the computer. Replace it with a bootable diskette.

The drive cannot read a diskette.

Try another diskette. If you can access the second diskette, the first diskette (not the drive) is probably causing the problem. Run Error-checking on the faulty diskette (for instructions, see "Disk drive problems" on page 221).

DVD-ROM or multi-function drive problems

You cannot access a disc in the drive.

Make sure the drive tray has closed properly. Press gently until it clicks into place.

Open the drive tray and remove the disc. Make sure the drive tray is clean. Any dirt or foreign object can interfere with the laser beam.

Examine the disc to see whether it is dirty. If necessary, wipe it with a clean damp cloth dipped in water or a neutral cleaner.

Replace the disc in the tray. Make sure it is lying flat, label side uppermost. Press the disc down until it locks on the spindle. Close the drive tray carefully, making sure it has shut completely.

If you are trying to play a DVD movie, it may not play because the DVD region does not match the DVD player region. For more information, see "Using the DVD-ROM or multi-function drive" on page 115.

You press the disc eject button, but the drive tray does not slide out.

Make sure the computer is connected to a power source and turned on. The DVD-ROM or multi-function drive eject mechanism requires power to operate.

Make sure a program is not accessing the drive and preventing it from ejecting.

To remove a disc without turning on the computer, use a narrow object, such as a straightened paper clip, to press the manual eject button. This button is in the small hole next to the disc eject button on the right side of the computer.

CAUTION Never use a pencil to press the manual eject button. Pencil lead can break off inside the computer and damage it.

Some discs run correctly, but others do not.

If the problem is with an application CD-ROM, refer to the software's documentation and check that the hardware configuration meets the program's needs.

Sound system problems

You do not hear any sound from the computer.

Adjust the volume control.

Try pressing Fn + Esc to see if the volume mute is disabled.

If you are using external headphones or speakers, check that they are securely connected to your computer.

The computer emits a loud, high-pitched noise.

This is feedback between the microphone and the speakers. It occurs in any sound system when input from a microphone is fed to the speakers and the speaker volume is too loud. Adjust the volume control.

PC Card problems

PC Cards (PCMCIA-compatible) include many types of devices, such as a removable hard disk, additional memory, or a pager.

Most PC Card problems occur during installation and setup of new cards. If you are having trouble getting one or more of these devices to work together, several sections in this chapter may apply.

Resource conflicts can cause problems when using PC Cards. See "Inserting and removing PC Cards" on page 91 for more information.

Card Information Structure

When you insert a PC Card into a slot, the computer attempts to determine the type of card and the resources it requires by reading its Card Information Structure (CIS). Sometimes the CIS contains enough information for you to use the card immediately.

Other cards must be set up before you can use them. Use the Windows® XP PC Card (PCMCIA) Wizard to set up the card. Refer to your Microsoft® documentation for more

information, or refer to the documentation that came with the PC Card.

Some card manufacturers use special software called *enablers* to support their cards. Enablers result in nonstandard configurations that can cause problems when installing the PC Card.

If your system does not have built-in drivers for your PC Card and the card did not come with an operating system driver, it may not work under the operating system. Contact the manufacturer of the PC Card for information about using the card under the operating system.

PC Card checklist

- Make sure the card is inserted properly into the slot.

  See "Inserting and removing PC Cards" on page 91 for information about how to insert PC Cards.

- Make sure all cables are securely connected.
- Occasionally a defective PC Card slips through quality control. If another PCMCIA-equipped computer is available, try the card in that machine. If the card malfunctions again, it may be defective.

Resolving PC Card problems

Here are some common problems and their solutions:

The slots appear to be dead. PC Cards that used to work no longer work.

Check the PC Card status:

1. Click **Start**.
2. Click **My Computer** icon with the secondary button, then click **Properties**.

   The System Properties dialog box appears.

3. Click the **Hardware** tab.

4 Click the **Device Manager** button.

5 Double-click the **PCMCIA adapter**.

6 Double-click the appropriate PC Card.

The operating system displays your PC Card's Properties dialog box, which contains information about your PC Card configuration and status.

The computer stops working (hangs) when you insert a PC Card.

The problem may be caused by an I/O (input/output) conflict between the PCMCIA socket and another device in the system. Use Device Manager to make sure each device has its own I/O base address. See "Fixing a problem with Device Manager" on page 213 for more information.

Since all PC Cards share the same socket, each card is not required to have its own address.

Hot swapping (removing one PC Card and inserting another without turning the computer off) fails.

Follow this procedure before you remove a PC Card:

1 Double-click the **PC Card** icon on the taskbar.

2 Click **Safely remove *xxxx***, where *xxxx* is the identifier for your PC Card.

The operating system displays a message that you may safely remove the card.

3 Remove the card from the slot.

CAUTION Never swap modules when the computer is in Hibernation or Stand By mode. This is known as "warm swapping" and is not supported with this computer For more information on Hibernation and Stand By modes, see."Using Hibernation" on page 127 and "Using Stand By" on page 130

The system does not recognize your PC Card.

Refer to the PC Card documentation.

Removing a malfunctioning card and reinstalling it can correct many problems.

A PC Card error occurs.

Reinsert the card to make sure it is properly connected.

If the card is attached to an external device, check that the connection is secure.

Refer to the card's documentation, which should contain a troubleshooting section.

Printer problems

This section lists some of the most common printer problems:

The printer will not print.

Check that the printer is connected to a working power outlet, turned on, and ready (online).

Check that the printer has plenty of paper. Some printers will not start printing when there are just two or three sheets of paper left in the tray.

Make sure the printer cable is firmly attached to the computer and the printer.

Run the printer's self-test to check for any problem with the printer itself.

Make sure you installed the proper printer drivers, as shown in "Connecting a local printer" on page 66 or in the instructions that came with the printer.

You may have connected the printer while the computer is on. Disable Stand By mode, turn off the computer, and turn off the printer. Turn the printer back on, make sure it is on line, then turn the computer back on.

Try printing another file. For example, you could create and attempt to print a short test file using Notepad. If a Notepad file prints correctly, the problem may be in your original file.

If you cannot resolve the problem, contact the printer's manufacturer.

The printer will not print what you see on the screen.

Many programs display information on the screen differently from the way they print it. See if your program has a print preview mode. This mode lets you see your work exactly as it will print. Contact the software manufacturer for more information.

Modem problems

This section lists common modem problems:

The modem will not receive or transmit properly.

Make sure the cable from the modem to the telephone line is firmly connected to the computer's modem port and the telephone line jack.

Check the port settings to make sure the hardware and software are referring to the same COM port.

Check the communications parameters (baud rate, parity, data length and stop bits) specified in the communications program. It should be set up to transmit at 300, 1200, 2400, 4800, 9600, 14400, 28800, 33600 bps (bits per second), or higher. Refer to the program's documentation and the modem manual for information on how to change these settings.

The modem is on, set up properly and still will not transmit or receive data.

Make sure the line has a dial tone. Connect a telephone handset to the line to check this.

The other system may be busy or off line. Try making a test transmission to someone else.

Develop good computing habits

Make sure you are prepared.

Save your work frequently.

You can never predict when your computer will lock, forcing you to close a program and lose unsaved changes. Many software programs build in an automatic backup, but you should not rely solely on this feature. Save your work! See "Computing tips" on page 99 for instructions.

On a regular basis, back up the information stored on your hard disk.

Here are some ways you can do this:

- Copy files to diskette, following the steps in "Saving your work" on page 112.
- Connect a tape drive to the system and use specialized software to copy everything on the hard disk to a tape.

Some people use a combination of these methods, backing up all files to tape weekly and copying critical files to diskette on a daily basis.

If you have installed your own programs, you should back up these programs as well as your data files. If something goes wrong that requires you to reformat your hard disk and start again, reloading all your programs and data files from a backup source will save time.

Read the user's guides.

It is very difficult to provide a fail-safe set of steps you can follow every time you experience a problem with the computer. Your ability to solve problems will improve as you learn about how the computer and its software work together.

Get familiar with all the user's guides provided with your computer, as well as the manuals that come with the programs and devices you purchase.

Your local computer store or book store sells a variety of self-help books you can use to supplement the information in the manuals.

If you need further assistance

If you have followed the recommendations in this chapter and are still having problems, you may need additional technical assistance. This section contains the steps to take to ask for help.

Before you contact Toshiba

Since some problems may be related to the operating system or the program you are using, it is important to investigate other sources of assistance first.

Try the following before you contact Toshiba:

- Review the troubleshooting information in your operating system documentation.
- If the problem occurs while you are running a program, consult the program's documentation for troubleshooting suggestions. Contact the software company's technical support group for their assistance.
- Consult the dealer from whom you purchased your computer and/or program. Your dealer is your best source for current information.

Detailed system specifications are available at www.ts.toshiba.com by selecting your particular product and model number, clicking **GO**, and then clicking the **Detailed Specs** link from the menu on the left, or just refer to the computer documentation shipped with your product.

For the number of a Toshiba dealer near you in the United States, call: (800) 457-7777.

Contacting Toshiba

If you still need help and suspect that the problem is hardware-related, Toshiba offers a variety of resources to help you.

Toshiba's Technical Support Website

For technical support, or to stay current on the most recent software and hardware options for your computer, and for other product information, be sure to regularly check the Toshiba Web site at pcsupport.toshiba.com.

Toshiba voice contact

Before calling Toshiba, make sure you have:

- Your computer's serial number.
- The computer and any optional devices related to the problem.
- Backup copies of your Windows operating system and all other preloaded software on your choice of media.
- Name and version of the program involved in the problem along with its installation media.
- Information about what you were doing when the problem occurred.
- Exact error messages and when they occurred.

For technical support, call the Toshiba Global Support Centre:

Within the United States at (800) 457-7777

Outside the United States at (949) 859-4273

Other Toshiba Internet Web sites

toshiba.com	Worldwide Toshiba corporate site
computers.toshiba.com	Marketing and product information in the USA
www.toshiba.ca	Canada
www.toshiba-Europe.com	Europe
www.toshiba.co.jp/index.htm	Japan
http://servicio.toshiba.com	Mexico and all of Latin America

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For more information on additional Toshiba worldwide locations, please visit: www.toshiba.co.jp/index.htm.

Appendix A

Hot Keys

Hot keys are keys that, when pressed in combination with the Fn key, turn system functions on and off. Hot keys have a legend on or above the key indicating the option or feature the key controls.

Volume Mute

Fn +

This hot key enables/disables volume mute on your computer.

When volume mute is enabled, no sound will come from the speakers or headphones.

Instant password security

Fn +

This hot key blanks the display.

For more information about the instant password, see "Using an instant user-level password" on page 189.

Without a password

The Fn + F1 key combination turns off the display and activates the instant security. Using the Toshiba Dual Pointing Device or pressing any key will activate a log in screen. See "Using an instant user-level password" on page 189 for more information.

With a password

The Fn + F1 key combination turns off the display and activates instant security.

1. Press Fn, then press F1. The screen goes blank.
2. Move the Toshiba Dual Pointing Device or press a key.

   On the displayed screen, select a user:

3. For the selected user:

   - If you have not registered a Windows® user password, press Enter.
   - If you have registered a Windows® user password, type the password and press Enter.

   The desktop displays.

For the Windows® XP operating system, you type the user or supervisor password into the Windows® security screen dialog box.

Power usage profile

Fn +

This hot key displays the power usage pop-up window and cycles through the battery save profiles.

The power usage profiles that can be selected are:

Full Power, Long Life, Normal, and High Power; DVD Playback, and Presentation

Sample power usage profiles

The default profiles in Windows XP for AC power is Full Power only.

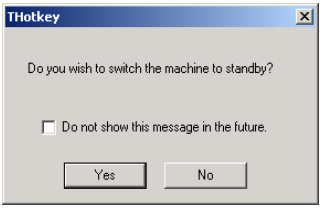
The default profile in Windows XP for Battery power is Normal. The properties of each profile are set in the TOSHIBA Power Saver utility. For more information, see "TOSHIBA Power Saver" on page 176.

Stand By mode

Fn +

This hot key puts the computer into Stand By mode.

A message box is displayed by default to confirm that the computer is going into Stand By mode. This message box can be set so it does not display.



Sample Stand By confirmation box

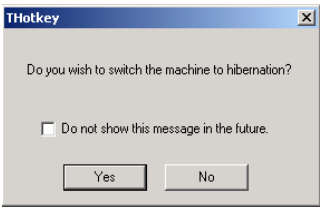
For more information on Stand By mode, see "Using Stand By" on page 130.

Hibernation mode

Fn +

This hot key puts the computer into Hibernation mode.

If Hibernation mode is enabled (the default) a message box is displayed by default to confirm the computer is going into Hibernation mode. The message box can be set so it does not display.



Sample Hibernation confirmation box

If Hibernation mode is disabled, this hot key will not respond. For more information on Hibernation mode, see "Using Hibernation" on page 127.

Display modes

Fn +

This hot key cycles through the power-on display options.

The display modes are:

- Built-in display only
- Built-in display and external device simultaneously
- External device only
- Built-in display and TV (or other external video device) simultaneously
- TV (or other external video device) only

Sample display options window

In order to use a simultaneous mode, you must set the resolution of the internal display panel to match the resolution of the external display device.

Display brightness

Fn +

This hot key decreases the screen brightness.

Fn +

This hot key increases the screen brightness.

Wireless device enable/disable

Fn +

This hot key enables the optional wireless devices installed in your computer.

The wireless modes are:

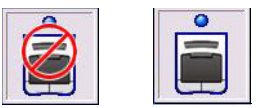
- Bluetooth™ enabled—This enables the optional Bluetooth™ module (See "Using the optional Bluetooth™ module" on page 163). The optional Bluetooth™ module must be installed in your computer to function.
- Wi-Fi enabled—This enables the Wi-Fi module.
- Enable all devices—This enables all devices.
- Disable all devices—This disables all devices.

Disabling or enabling the Toshiba Dual Pointing Device

Fn +

This hot key enables/disables the Dual Pointing Device.

To use the TouchPad, see "Disabling or enabling the Dual Pointing Device" on page 107.



Sample disable and enable Dual Pointing Device windows

Zooming applications in/out

Fn +

This hot key turns the Zooming utility to zoom-in. For more information, see "TOSHIBA Zooming Utility" on page 181.

Fn +

This hot key turns the Zooming utility to zoom-out. For more information, see "TOSHIBA Zooming Utility" on page 181.

Keyboard hot keys

Fn +

This hot key turns the cursor control overlay on and off.

Fn +

This hot key turns the numeric overlay on and off.

Fn +

This hot key turns the scroll lock feature on and off.

Fn + [Spacebar]

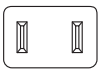
This hot key toggles the resolution between SVGA+ (800 x 600), XGA (1024 x 768), and SXGA+ (1400 x 1050 if supported).

Appendix B

Power Cord/Cable Connectors

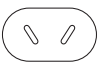
The computer features a universal power supply you can use worldwide. This appendix shows the shapes of the typical AC power cord/cable connectors for various parts of the world.

USA and Canada



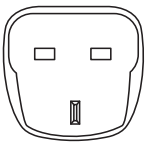
UL approved
CSA approved

Australia



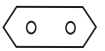
AS approved

United Kingdom



BS approved

Europe



VDA approved
NEMKO approved

Appendix C

Using ConfigFree™ with your Toshiba Computer

ConfigFree™ is a set of utilities that makes it easy to control communication devices and network connections. ConfigFree also lets you identify communication problems and create profiles for easy switching between locations and communication networks.

The ConfigFree utilities include the following:

- Connectivity Doctor—The Connectivity Doctor utility is used to analyze network connections and fix networking problems with your notebook computer. For more information, see "Connectivity Doctor" on page 246.
- Search for Wireless Devices—The Search for Wireless Devices utility searches for wireless LAN and Bluetooth devices used in the neighborhood, and displays information about them on a virtual map. For more information, see "Search for Wireless Devices" on page 248.
- Profile Settings—The Profiles utility lets you switch between network configurations. For more information, see "Profile Settings" on page 251.

Getting Started

This section contains information about the ConfigFree main screen, and how to start and setup ConfigFree.

For more detailed information on setting up and using ConfigFree, see the Help File included in the application.

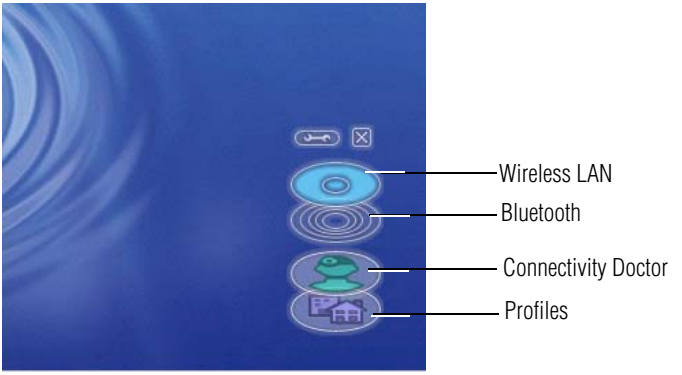
Starting ConfigFree

To start ConfigFree, be sure the computer has a wired or wireless connection. Then perform any of the following steps:

- (Microsoft® Windows® XP or 2000) Click the **Start** button, and select **All Programs**, **TOSHIBA**, **Networking**, **ConfigFree**.
- Double-click the **ConfigFree** icon on the taskbar.
- Press the **Toshiba Assist** button (if applicable to your system) to open the Toshiba Assist, and then click the **ConfigFree** icon.
- Click the **ConfigFree** icon on the taskbar, and then click the desired utility.

NOTE If your computer is not connected to a network, the ConfigFree icon on the taskbar is displayed with an "X."

When you start a search for wireless devices, ConfigFree Launcher displays on your computer desktop. You can then click the appropriate icon on the Launcher to start the desired ConfigFree utilities.



Sample ConfigFree Launcher

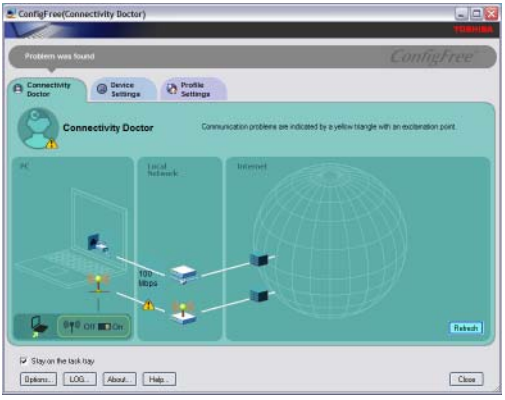
ConfigFree Utilities

Connectivity Doctor

The Connectivity Doctor lets you analyze your network connections and fix network-connection problems. Using Connectivity Doctor, you can view detailed network information by simply moving the mouse pointer.

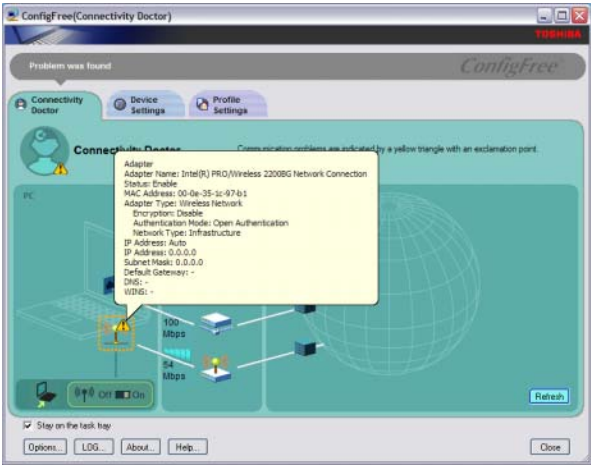
The Connectivity Doctor works with the following network devices:

- Wired and wireless network devices
- Routers, hubs, and bridges
- Access points



Sample Connectivity Doctor screen

Moving the mouse pointer over a wired or wireless network device icon displays information about the device, such as its IP address, subnet mask, and MAC address. A wireless network device also shows information such as the network SSID and the device's Wired Equivalent Privacy (WEP) key settings.



Sample viewing device information

If a problem, or potential problem, is detected, a triangle containing an exclamation point appears in the Connectivity Doctor screen and an orange frame describes the relevant location. You can then view a possible cause and solution for the problem by clicking the exclamation point.

For example, if the connection to a wireless network cannot be established because the wireless communication switch is turned off, an exclamation point appears next to the wireless communication switch. Clicking the exclamation point displays a description of the problem and a solution.

The following checkboxes and buttons are provided on the Connectivity Doctor screen:

Stay on the task tray	When checked, the ConfigFree icon resides in the system tray.
Options	Displays ConfigFree setting screen.
Log	Lets you create a diagnostic log, view a history of log files, or delete the history. Log files are saved as CFhtml*xxxxx*.htm, where *xxxxx* is the creation date and time. They reside in the folder: C;\Documents and Settings*username*\Local Settings\Temp
About	Displays the version of Connectivity Doctor.
Help	Displays online help.
Close	Closes the Connectivity Doctor screen.

Search for Wireless Devices

The Search for Wireless Devices utility searches for wireless LAN devices and Bluetooth devices currently used in the neighborhood, and displays information about them on a virtual map.

To search for wireless devices:

1 Click the icon in the system tray.

2 Click **Search for Wireless Devices**.

A virtual map appears with a graphical representation of the wireless devices that have been detected.

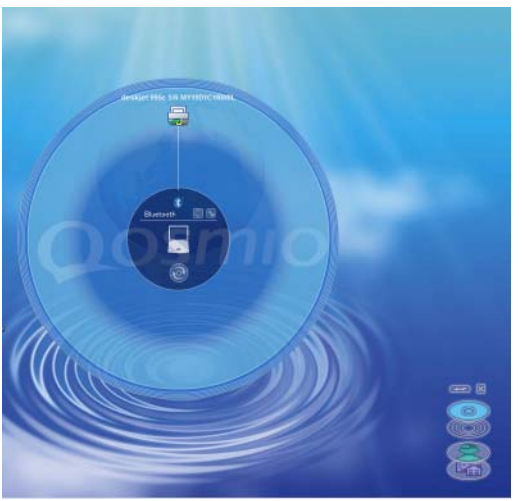
NOTE Search for Wireless Devices can also be started from the ConfigFree Launcher.

For Wi-Fi networks, the intensity of a signal is displayed in five levels or "bands." The signal from the connected access point is displayed in the bands surrounding the PC icon at the center of the map. Placing the pointer over the displayed "point of light" shows detailed information about the wireless device.

NOTE The wireless device shown near the center of the map is not necessarily near your notebook computer. If a wireless device located a distance away also has a strong signal, it appears near the center of the map as well.

Sample viewing Wi-Fi devices

The following screen shows an example of Bluetooth devices that are detected. As with the Wi-Fi screen, moving the mouse pointer over a device icon displays information about the device.



Sample viewing Bluetooth devices

You can connect to devices shown on the Bluetooth map:

1. Click the icon of a Bluetooth device.
2. Click your own computer at the center of the map.
3. Configured devices are automatically connected. Devices not yet configured launch the Add New Connection Wizard, where you can configure and connect to the device.

Profile Settings

The Profile Settings utility lets you save network settings in "profiles." ConfigFree profiles are useful for easily switching network settings and devices.You can switch network settings simply by selecting the profile with the desired settings.

If you visit a client company occasionally, for example, you can set up a profile to match that environment and connect to the network. Similarly, users who access networks in the office and at home can set up profiles to handle these networking environments.

A profile contains the currently configured network settings on the computer, as well as information about any network devices. The following settings can be saved (or "captured") in a profile:

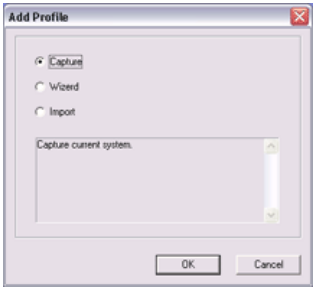
- **Internet settings** — includes LAN settings (proxy server settings) and the address of a home page that opens automatically when Internet Explorer starts.
- **Devices** — lets you enable or disable settings of wired and wireless network devices, infrared devices, and set the power status of Bluetooth antennas.
- **TCP/IP settings** — includes DHCP, IP address, subnet mask, default gateway, DNS server, and WINS server settings.
- Personal firewall settings for Internet connections.
- Dial-up connection settings for the default connection.
- File and printer sharing settings.

- Printer settings for the default printer.

To create a profile:

1. Click the icon in the system tray.
2. Move the pointer to **Profile**.
3. Click **Add**. The Add Profile screen appears.
4. Select **Capture** and click **OK**. The Add Profile screen appears.
5. Enter the name of the profile you want to create.
6. Enter any optional comments, if desired.
7. Click **Change Icon** and select an icon for this profile.
8. Under **Captured Items**, select the items you want to capture for this profile.
9. If connecting with a wireless network, select the desired **Auto Switch Settings**. (These options are unavailable if wireless devices have been disabled.)
10. Under **Execute this program after switching**, click the **Browse** button and select the program, file, or Web site URL that is to start after switching to this profile.

    For example to have Internet Explorer start in Windows XP after switching profiles, type:
    C:\Program Files\Internet Explorer\IEXPLORE.EXE
11. Click **OK**.



Sample Add Profile screen

NOTE The online help provides real-world examples of setting up profiles for different networking environments.

After you set up one or more profiles, you can check their settings and fine-tune them as necessary. Profiles can also be imported and exported. This feature is useful when transferring profile settings to other computers. For more information about modifying, importing, and exporting profiles, refer to the online help.

Quick Connect

The Quick Connect feature switches the Wireless LAN connection to connect to a Toshiba Wireless Projector. Once the projector utility is installed, launching the Quick Connect utility automatically opens the Wireless Data Projector Application. There you can configure how you would like to use the projector.

To connect to a Toshiba Wireless Projector:

1. Click the icon in the system tray.
2. Move the mouse pointer to **Toshiba Wireless Projector (DPJ)**, then click **Connect**.

Launching Quick Connect prevents you from using the network to connect to a Toshiba Wireless Projector when the

wireless LAN Configuration is set to Ad hoc. If you are connected to an access point, the connection is broken and re-established later.

To review the current Toshiba Wireless Projector settings and change them if necessary:

1. Click the icon in the system tray.
2. Move the mouse pointer to **Toshiba Wireless Projector (DPJ)**, then click **Settings**. The Quick Connect properties dialog box appears.
3. Complete the settings. Refer to the online help if necessary.
4. Click **OK**.

NOTE The default connection setting is for Ad hoc mode, therefore, if the setting on the Toshiba Wireless Projector is in Infrastructure mode, it will not connect, however; you can change the settings to Infrastructure mode to match the settings on the projector.

Sample Projector icon when connected with Quick Connect

If the wireless mode for the wireless setting is set for 5 GHz (802.11a), Quick Connect changes this mode to 2.4 GHz (802.11b) and then connects to the projector.

The wireless LAN configuration returns to the settings that were last used before the Quick Connect function was started:

- If the Toshiba Wireless Projector utility is closed.
- If you select Toshiba Wireless Projector (DPJ) from the ConfigFree tray menu (this disconnects the wireless LAN connection).
- If you select a profile from the ConfigFree tray menu or when you disable a wireless device.
- If you close ConfigFree.

Using the Automatic Switch

The Automatic Switch feature allows the computer to automatically switch profiles the next time it is powered on. This feature is particularly useful if you want your computer to automatically switch from the network configuration you use in your office to the one you use at home.

The Auto Switch feature contains options for automatically switching between wired and wireless devices. With these options, the computer automatically switches to a wireless LAN network when the cable of the wired LAN network is removed from the computer. When the cable is reconnected, the connection to the wired LAN is re-established.

To use the Automatic Switch feature:

1. Right-click the icon in the system tray.
2. Click **Auto Switch**. The Auto Switch dialog box appears.
3. Check **Enable Wireless when cable disconnect occurs**.

4 Click **OK**.

NOTE If your computer is connected to multiple wireless LAN devices, the Auto Switch (SSID) feature is disabled. To enable this feature, only one wireless LAN device can be used.

Semi-Automatic Switch Feature

The Semi-Automatic feature alerts you when the computer connects to a Service Set Identifier (SSID) stored in a profile, When the computer connects to the designated SSID, a notification window appears. You can then click this window to connect using the settings specified in the profile.

To use the Semi-Automatic Switch feature:

1 Right-click the icon in the system tray.

2 Click **Auto Switch**. The Auto Switch dialog box appears.

3 Select the **Auto Switch (SSID)** tab.

4 Select the profile to be automatically selected when the SSID is detected, then click **Add**. The profile is moved to the **List of target SSIDs and profiles**.

5 Repeat the previous step for each additional profile you want to select.

6 Select **Automatically switch profiles when connected to this SSID**.

7 Check **Automatically switch profile when connected to this SSID**.

8 Click **OK**.

The computer is now configured to use the Semi-Automatic Switch feature. When the computer connects to an SSID in a profile, a display notification window appears. You can then click **Switch** on the window to switch profiles. You can also set the option for having the switch be automatic without the need for a notification.

NOTE Several profiles can be defined for a single SSID. In this case, several notification windows are displayed. By clicking these windows, you can switch to the profile for that location.

Glossary

TECHNICAL NOTE: Some features defined in this glossary may not be available on your computer.

Acronyms

The following acronyms may appear in this user's guide.

AC	alternating current
BIOS	basic input/output system
bps	bits per second
CD	compact disc
CD-ROM	compact disc read-only memory
CMOS	complementary metal-oxide semiconductor
COM1	communications port 1 (serial port)
COM2	communications port 2 (serial port)
CPU	central processing unit
DC	direct current

DMA	direct memory access
DIMM	dual inline memory module
DOS	disk operating system
DPI	dots per inch
DSTN	dual supertwist nematic
DVD	digital versatile (or video) disc
DVD-ROM	digital versatile (or video) disc read-only memory
ECP	enhanced capabilities port
EPROM	erasable programmable read-only memory
FAT	file allocation table
FCC	Federal Communications Commission
FIR	fast infrared
GB	gigabyte
HDD	hard disk drive
HTML	Hypertext Markup Language
I/O	input/output
IRQ	interrupt request
ISP	Internet service provider
KB	kilobyte
LAN	local area network
LCD	liquid crystal display
LPT1	line printer port 1 (parallel port)
LSI	large-scale integration
MB	megabyte
MIDI	Musical Instrument Digital Interface
PC	personal computer
PCI	Peripheral Component Interconnect
PCMCIA	Personal Computer Memory Card International Association
RAM	random access memory

RFI	radio frequency interference
ROM	read-only memory
RTC	real-time clock
SCSI	small computer system interface
SDRAM	synchronous dynamic random access memory
SRAM	static random access memory
SVGA	super video graphics adapter
TFT	thin film transistor
USB	universal serial bus
URL	universal resource locator
WAN	wide area network
www	World Wide Web

Terms

The following terms may appear in this user's guide.

A

active-matrix display—A liquid crystal display (LCD) made from an array of liquid crystal cells using active-matrix technology. Also known as a "TFT display," in its simplest form there is one thin film transistor (TFT) for each cell. This type of display works well with notebook computers because of its shallow depth and high-quality color. Active-matrix displays are viewable from wider angles than most passive-matrix displays.

adapter—A device that provides a compatible connection between two units. For example, the computer's internal display adapter receives information from the software and translates it into images on the screen. An adapter can take a number of forms, from a microprocessor to a simple connector. An intelligent adapter (one that is capable of doing some processing) may also be called a controller.

alternating current (AC)—The type of power usually supplied to residential and commercial wall outlets. AC reverses its direction at regular intervals. Compare *direct current (DC)*.

application—A computer program that you use to perform tasks of a specific type. Applications include word processors, spreadsheets, and database management systems. See also *program*.

B

backup—A copy of a file, usually on a removable disk, kept in case the original file is lost or damaged.

basic input/output system (BIOS)—See *BIOS*.

baud rate—The speed at which a communication device, such as a printer or modem, transmits information. Baud rate is the number of signal changes per second (not necessarily the same as bits per second). See also *bits per second*.

BIOS (basic input/output system)—Basic instructions, stored in read-only memory (ROM), containing the information the computer needs in order to check hardware and load the operating system when you start up the computer.

bit—Short for "binary digit." A bit is the smallest unit of information used by a computer. A group of eight bits is a byte. See also *byte*.

bits per second (bps)—A way of measuring the speed at which information is passed between two devices. The basic measure used in modem communications, bps is similar, but not identical, to the baud rate. See also *baud rate*.

boot—To start the computer. This term originates from the bootstrap program (as in "pulling itself up by its bootstraps"), a program that loads and initializes the operating system. See also *reboot*.

boot disk—See *system disk*.

boot priority (startup sequence)—The order in which the computer accesses its disk drives to locate the startup files. Under the default startup sequence, the computer looks for the startup files in the diskette drive before checking the hard disk.

bus—An electrical circuit that connects the central processing unit (CPU) with other parts of the computer, such as the video adapter, disk drives, and ports. It is the pathway through which data flows from one device to another. See also *bus speed*, *frontside bus*.

bus speed—The speed at which the central processing unit (CPU) communicates with the other parts of the computer.

byte—A sequence of eight bits. A byte is the smallest addressable unit of data. See also *bit, gigabyte, kilobyte*, *megabyte*.

C

cache—A section of very fast memory in which frequently used information is duplicated for quick access. Accessing data from cache is faster than accessing it from the computer's main memory. See also *CPU cache, L1 cache, L2 cache.*

CD—An individual compact disc. See also *CD-ROM.*

CD-ROM (compact disc read-only memory)—A form of high-capacity storage that uses laser optics instead of magnetic means for reading data. See also *CD*. Compare *DVD-ROM.*

central processing unit (CPU)—The chip that functions as the "brain" of the computer. It takes information from outside sources, such as memory or keyboard input, processes the information, and sends the results to another device that uses the information.

character—Any letter, number, or symbol you can use on the computer. Some characters are non-printing characters, such as a paragraph break in a word-processing program. A character occupies one byte of computer storage.

chip—A small piece of silicon containing computer logic and circuits for processing, memory, input/output, and/or control functions. Chips are mounted on printed circuit boards.

click—To press and release the Toshiba Dual Pointing Device control button or mouse button without moving the pointing device or mouse. In Windows, this refers to the left mouse button or primary Toshiba Dual Pointing Device control button, unless otherwise stated. See also *double-click*.

color palette—A set of specified colors that establishes the colors that can be displayed on the screen at a particular time.

compatibility—The extent to which computers, programs, or devices can work together harmoniously, using the same commands, formats, or language as another.

configuration—(1) The collection of components that make up a single computer system. (2) How parts of the system are set up (that is, configured).

controller—A device that controls the transfer of data from a computer to a peripheral device and vice versa. For example, disk drives, monitors, keyboards, and printers all require controllers.

CPU—See *central processing unit (CPU).*

CPU cache—A section of very fast memory residing between the CPU and the computer's main memory that temporarily stores data and instructions the CPU will need to execute commands and programs. See also *cache, L1 cache, L2 cache.*

cursor—A symbol that indicates the current position on the screen. The shape of the cursor varies, depending on the program you are using and what you are doing.

D

default—The setting selected by a program when the user does not specify an alternative setting.

device—A component attached to the computer. Devices may be external (outside the computer's case) or internal (inside the computer's case). Printers, disk drives, and modems are examples of devices.

device driver—A program (called a "driver") that permits a computer to communicate with a device.

dialog box—An on-screen window displayed by the operating system or a program giving a direction or requesting input from the user.

direct current (DC)—The type of power usually supplied by batteries. DC flows in one direction. Compare *alternating current (AC).*

direct memory access (DMA)—A dedicated channel, bypassing the CPU, that enables direct data transfer between memory and a device.

directory—See *folder.*

disable—To turn a computer option off. See also *enable*.

disc—A round, flat piece of metal, designed to be read from and written to by optical (laser) technology, and used in the production of optical discs, such as CDs and DVDs. Compare *disk.*

disk—A round, flat piece of material that can be magnetically influenced to hold information in digital form, and used in the production of magnetic disks, such as diskettes and hard disks. Compare *disc.* See also *diskette, hard disk.*

disk drive—The device that reads and writes information and programs on a diskette or hard disk. It rotates the disk at high speed past one or more read/write heads.

diskette—A thin, flexible disk in a protective jacket that stores magnetically encoded data. Diskettes can be removed from the computer and come in two sizes: 5.25-inch and 3.5-inch. Your computer uses 3.5-inch diskettes. See also *double-density diskette, high-density diskette.*

document—Any file created with an application and, if saved to disk, given a name by which it can be retrieved. See also *file*.

double-click—To press the Toshiba Dual Pointing Device control button or mouse button rapidly twice without moving the pointing device or mouse. In Windows, this refers to the primary pointing device control button or left mouse button, unless otherwise stated.

double-density diskette—A 3.5-inch diskette that can hold up to 720 KB of information (half the capacity of a high-density diskette). See also *diskette, high-density diskette.*

download—(1) In communications, to receive a file from another computer through a modem or network. (2) To send font data from the computer to a printer. See also *upload*.

drag—To hold down the Toshiba Dual Pointing Device control button or mouse button while moving the cursor to drag a selected object. In Windows, this refers to the primary pointing device control button or left mouse button, unless otherwise stated.

driver—See *device driver.*

DVD—An individual digital versatile (or video) disc. See also *DVD-ROM*.

DVD-ROM (digital versatile [or video] disc read-only memory)—A very high-capacity storage medium that uses laser optics for reading data. Each DVD-ROM can hold as much data as several CD-ROMs. Compare *CD-ROM.*

E

emulation—A technique in which a device or program imitates another device or program.

enable—To turn on a computer option. See also *disable*.

executable file—A computer program that is ready to run. Application programs and batch files are examples of executable files. Names of executable files usually end with a .bat or .exe extension.

extension—See *file extension*.

external device—See *device*.

F

file—A collection of related information, saved on disk with a unique name. A file may be a program, information used by a program, or a document. See also *document*.

file allocation table (FAT)—The section of a disk that keeps track of the location of files stored on the disk.

file name—A set of characters that uniquely identifies a file within a particular folder. It consists of two parts: the actual name and the file name extension. See also *file extension*.

file extension—The three characters following the period (pronounced "dot") at the end of a file name. The extension indicates the type of file. Examples are .exe for program files and .hlp for help files. See also *file name*.

folder—Also called directory. A container for organizing files saved to a disk. A folder is symbolized on screen by a graphical image (icon) of a file folder. A folder can contain files and other folders.

format—(verb) To prepare a blank disk for use with the computer's operating system. Formatting creates a structure on the disk so the operating system can write information to the disk or read information from it.

frontside bus—The primary pathway (bus) between the CPU and the computer's main memory. Also called "system bus." See also *bus*.

function keys—The keys labeled F1 through F12, typically located on the keyboard. Their function is determined by the operating system and/or individual programs.

G

gigabyte (GB)—A unit of data equal to 1,073,741,824 bytes (1024 x 1024 x 1024 bytes). See also *byte*.

ground—A conductor to which all components of an electric circuit are connected. It has a potential of zero (0) volts, is connected to the earth, and is the point of reference for voltages in the circuit.

H

hard disk—A storage device composed of a rigid platter or platters that can be magnetically coded with data. Hard disks hold much more information than diskettes and are used for long-term storage of programs and data. The primary (or only) hard disk in a computer is usually fixed, but some computers have secondary hard disks that are removable. By default, the hard disk is referred to as drive C.

hardware—The physical components of a computer system. Compare *software.*

Hibernation—A feature of many Toshiba notebook computers that saves to the hard disk the current state of your work, including all open files and programs, when you turn the computer off. When you turn on the computer again, your work is returned to the same state it was when the computer was turned off. See also *Stand By, Suspend.*

high-density diskette—A 3.5-inch diskette that holds 1.44 MB of data. See also *diskette.*

hot key—(1) A feature in which certain keys in combination with the Fn key can set system options or control system parameters, such as the battery save mode. (2) A key or combination of keys that activates a memory resident program.

hot swapping—The ability to add or remove devices from a computer while the computer is running and have the operating system automatically recognize the change.

I

icon—A small image displayed on the screen that represents a function, file, or program.

interlaced—A method of refreshing a computer screen, in which only every other line of pixels is refreshed. Interlaced monitors take two passes to create a complete screen image. Compare *non-interlaced.*

internal device—See *device.*

Internet—The decentralized, world-wide network of computers that provides electronic mail, the World Wide Web, and other services. See also *World Wide Web.*

K

keyboard shortcut—A key or combination of keys that you use to perform a task instead of using the Toshiba Dual Pointing Device.

kilobyte (KB)—A unit of data equal to 1024 bytes. See also *byte*.

L

L1 (level one) cache—Memory cache built into the processor to help improve processing speed. See also *cache, CPU cache, L2 cache.*

L2 (level two) cache—Memory cache installed on the motherboard to help improve processing speed. It is slower than L1 cache and faster than main memory. See also *cache, CPU cache, L1 cache.*

LAN (local area network)—A group of computers or other devices dispersed over a relatively limited area and connected by a communications link that enables any device to interact with any other on the network.

liquid crystal display (LCD)—A type of display that uses a liquid substance between two transparent electrode panels. When an electric current passes through the electrodes, the molecules in the liquid form a crystalline pattern that polarizes the light passing through it. A filter over the electrodes permits only non-polarized light to pass to the surface of the display, creating light and dark pixels.

load—To move information from a storage device (such as a hard disk) into memory for processing.

local area network—See *LAN.*

logical drive—A section of a disk that is recognized by the operating system as a separate disk drive. A system's logical drives may differ from its physical drives. For example, a single hard disk drive may be partitioned into two or more logical drives.

M

megabyte (MB)—A unit of data equal to 1,048,576 bytes (1024 x 1024 bytes). See also *bytes.*

memory—Typically refers to the computer's main memory, where programs are run and data is temporarily stored and processed. Memory can be volatile and hold data temporarily, such as RAM, or it can be nonvolatile and hold data permanently, such as ROM. A computer's main memory is RAM. See *RAM*, *ROM*.

microprocessor—See *central processing unit (CPU).*

MIDI (Musical Instrument Digital Interface)—A standard for connecting musical instruments, synthesizers, and computers. The MIDI standard provides a way of translating music into a form computers can use, and vice versa.

modem—Short for "modulator/demodulator." A device that converts information from digital to analog and back to digital, enabling information to pass back and forth between digital computers and analog telephone lines.

motherboard—The main circuit board in the computer. It contains the processor, memory, and other primary components.

MS-DOS prompt—See *system prompt.*

multi-function drive—A DVD drive that can read and write to CD and DVD media.

multimedia—A combination of two or more media, such as sound, animation, and video in a computer program or presentation.

Musical Instrument Digital Interface—See MIDI.

N

network—A collection of computers and associated devices that are connected by communications facilities. A network allows you to share data and peripheral devices, such as printers, with other users and to exchange electronic mail.

non-interlaced—A method of refreshing a computer screen, in which each pixel of every line is refreshed as the electron beam scans across and down the screen. Compare *interlaced.*

non-system disk—A disk for storing programs and data that cannot be used to start the computer. Compare *system disk*.

O

online—Available through the computer. Online may refer to information being read from your own computer's hard disk, such as online documentation or online help, or to information coming from another company on a company network or the Internet.

operating system—A set of programs that controls how the computer works. Examples of operating systems are Windows XP and Windows NT.

P

palette—See *color palette.*

parallel—Processes that occur simultaneously. In communications, it means the transmission of more than one bit of information at a time. On your computer, the parallel port provides a parallel communications interface between the computer and an appropriate device. Most modern printers are parallel. Compare *serial.*

password—A unique string of characters entered by a user to verify his or her identity to the computer or the network.

PC Card—A credit-card-sized expansion card designed to increase the capabilities of notebook computers. PC Cards provide functions such as modem, fax/modem, hard disk drive, network adapter, sound card, or SCSI adapter.

peripheral—Any device, such as a printer or joystick, that is attached to the computer and controlled by the computer's CPU.

pixel—Short for "picture element." The smallest dot that can be produced on a screen or printer.

Plug and Play—Generally, refers to the computer's ability to automatically configure itself to work with peripheral devices. When capitalized, refers to a standard that, when followed by a device manufacturer, allows a PC to configure itself automatically to work with the device.

pointing device—Any device, such as the Toshiba Dual Pointing Device or a mouse, that enables you to move the cursor on the screen.

port—A socket on the computer where you plug in a cable for connection to a network or a peripheral device.

processor—See *central processing unit (CPU)*.

program—A set of instructions that can be executed by a computer. The general classes of programs (also called software) are operating system, application, and utility. See also *operating system, application, utility*.

properties—The attributes of an object or device. For example, the properties of a file include the file's type, size, and creation date.

R

RAM (random access memory)—Volatile memory that can be written to as well as read. By volatile, we mean that information in RAM is lost when you turn off your computer. This type of memory is used for your computer's main memory. See also *memory*. Compare *ROM*.

random access memory—See *RAM*.

read-only memory—See *ROM*.

reboot—See *boot*, *restart*.

removable disk—A disk that can be removed from a disk drive. A diskette is one example of a removable disk.

resolution—A measure of the sharpness of the images that can be produced by a printer or displayed on a screen. For a printer, resolution is expressed in dots per inch (dpi). For a screen, it is expressed as the number of pixels available horizontally and vertically.

restart—Synonymous with reboot. To reset the computer by reloading the operating system without turning the computer off. See also *boot*.

RJ-11—A modular connector used on most U.S. telephone systems and direct-connect modems. The RJ-11 connector is a 6-wire connector.

ROM (read-only memory)—Non-volatile memory that can be read but not written to. By non-volatile, we mean that information in ROM remains whether or not the computer is receiving power. This type of memory is used to store your computer's BIOS, which is essential instructions the computer reads when you start it up. See also *BIOS, memory.* Compare *RAM.*

S

select—To highlight or otherwise specify text, data, or graphics with the intent to perform some operation on it.

serial—Processes that occur one at a time. In communications, it means the transmission of one bit at a time sequentially over a single channel. On your computer, the serial port provides a serial interface between the computer and an appropriate device. Compare *parallel.*

shortcut—See *keyboard shortcut*.

software—See *program.* Compare *hardware.*

Stand By—A feature of some Windows operating systems that allows you to turn off the computer without exiting your open applications and to continue from where you left off when you turn the computer on again.

Suspend—A feature of some Windows operating systems that allows you to turn off the computer without exiting your open applications and to continue from where you left off when you turn the computer on again.

system disk—A diskette that contains the operating system files needed to start the computer. Any diskette can be formatted as a system disk. A system disk is also called a "bootable disk" or a "startup disk." Compare *non-system disk.*

system prompt—The symbol (in MS-DOS, generally a drive letter followed by a "greater than" sign) indicating where users are to enter commands.

T

TFT display—See *active-matrix display.*

U

universal serial bus (USB)—USB is a serial bus that supports a data transfer rate of up to 480 Mbps (480 million bits per second). USB can connect up to 127 peripheral devices through a single all-purpose USB port. USB allows hot swapping of peripherals. See also *bus, hot swapping, serial.*

upload—To send a file to another computer through a modem or network. See also *download.*

USB—See *universal serial bus (USB).*

utility—A computer program designed to perform a narrowly focused operation or solve a specific problem. Utilities are often related to computer system management.

W

Web—See *World Wide Web.*

Wi-Fi —A trademarked term by the Wi-Fi Alliance which stands for Wireless Fidelity and is another term for the communication protocol to permit an Ethernet connection using wireless communication components.

World Wide Web (www)—The worldwide network of Web sites linked together over the Internet. A user of the Web can jump from site to site regardless of the location of the computer hosting the site. See also *Internet.*

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